

# **State of North Carolina E-Procurement Due Diligence Final Report**



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**accenture**

**State of North Carolina  
E-Procurement Due Diligence Project  
Final Report**

**Table of Contents**

- I. Executive Summary
- II. Technical Solution
  - Functionality Overview
  - Integration
  - Hosted Environment
  - Sample Service Level Agreements
- III. Organizational Impacts
  - Organizational Impacts Overview
  - User Adoption Program
  - Supplier Adoption Program
  - Training Plan
  - Communication Plan
- IV. Funding Model
  - Funding Model Overview
  - Funding Model Principles
- V. Implementation Plan
  - Implementation Plan Overview
  - Summary Workplan
  - Detailed Workplan – Agency Involvement
- VI. Appendices: Supporting Documentation
  - Appendix A - Purchasing Data Analysis Reports
  - Appendix B - NCAS Purchasing by Commodity
  - Appendix C - Business Process Flows
  - Appendix D - Focus Group Summary and Reports
  - Appendix E - Ariba/Epylon Response to Functional Requirements

## **EXECUTIVE SUMMARY**

The State of North Carolina has made a significant commitment, both with people and financial resources, to establish a leadership position in e-government and to more effectively serve the citizens, businesses and state employees. To date, the results of this increased commitment have been positive. The State has established an award winning enterprise portal and a number of common infrastructure components: service broker, credit card processing, security, and electronic forms. These common services have been used as a building block for new successes - the *NC @ Your Service* portal, Division of Motor Vehicles Registration Renewal System and the many citizen-centric services, which will follow.

As the adoption of e-government capabilities progresses in the State, a comprehensive business infrastructure (ERP) is the logical first step for supporting the technological requirements of e-commerce. State government must not lose sight of this goal and strategy and its need for a comprehensive system to manage various financial functions (accounting, budget, cash management, treasury, human resources, payroll, etc.), both for efficient processing and for effective statewide reporting. As mentioned later in this Due Diligence report "an organization's ERP systems represent their central nervous system, a backbone for critical managerial and operational information flow and processes".

### **Why e-procurement now?**

Because of the solid foundation it has established in the development of e-government, the State is well positioned to implement an e-procurement service as a major step toward a more standard business infrastructure. The service will provide the following benefits:

- It will reduce prices through the aggregation of demand by consolidating purchases of like items from governmental agencies and the better management of statewide and agency contracts.
- It will enable processing efficiencies and associated cost savings for State Government.
- It will offer operating efficiencies to vendors through the electronic exchange of purchasing and payment information.
- It will facilitate the ability of small, minority, and under-utilized vendors to offer goods to the State and other markets.
- It will provide funds for supporting the e-government technical infrastructure that has been created.
- No additional appropriations will be required to implement and operate the service.

Funding for the service, including integration with financial systems, software, training, and support costs will be provided from a minimum 1-2% supplier fee for goods purchased with

## E-Procurement Due Diligence

the service. Financing for implementation is provided through the public/private partnership with Accenture, formerly known as Andersen Consulting. The service will be implemented over three years with a four year business model and a total budget of approximately \$60 million.

### **Background**

The e-procurement business model was made possible from a provision in the portal/project office contract which was obtained through an open bid process. Per that contract, Accenture performed a due diligence study assessing the feasibility of the model. The Due Diligence Study concludes that the State is positioned to successfully exercise the self-funding model.

### **North Carolina's Purchasing Environment**

Accenture estimates that North Carolina currently spends over a billion dollars per year for goods expected to be processed by a statewide e-procurement service. State agencies, state universities, community colleges, local education authorities, and local and county governments are included in the scope of this spend.

Current purchasing processes include many manual and paper intensive steps, which can add a considerable number of days to the buying cycle time and costs to the overall process. E-Procurement consolidates, automates and applies online business rules reducing buying cycle times and producing administrative cost savings.

Purchasing rules are complex and North Carolina currently uses few automated tools for assistance in complying with these rules. E-Procurement systems provide online computer processes resulting in consistent application of business rules, including purchases through pre-approved catalogs. According to Gartner Group, significant savings can be realized by re-engineering processes, increasing rules compliance and using preferred suppliers.

Buyers currently spend a high percentage of their time on clerical activities. Building automated approval flows and business rules removes the burden from buyers and re-focuses attention on negotiating deals and resolving high complexity and high consequence procurements.

A statewide e-procurement system provides valuable spend data. Current business systems are limited in statewide purchasing data collection and reporting capabilities; therefore, information necessary to negotiate fact-based volume discounts with suppliers is incomplete.

Based on the North Carolina Accounting System (NCAS), average elapsed time from requisition to purchase order issue is 3 days for term contract goods and 5 days for non-term contract goods. 85,800 purchase orders for goods are issued through this system annually. It is estimated that in excess of 572,000 purchase orders for goods are processed by the State annually across the North Carolina enterprise.

### **Due Diligence: Making the Case**

The due diligence effort was a significant undertaking that lasted approximately sixteen weeks. The project team performed extensive analysis to provide factual data that forms the foundation for a solid business case. Some of the major tasks performed included:

- Collected spend data from various sources including NCAS, DOT, Universities, Community Colleges, LEAs, and local and county government.
- Collected term contract and agency convenience contract information.
- Documented current purchasing processes at selected agencies.
- Conducted Focus Group sessions with requestors, approvers, and buyers to gather feedback on the current process and suggestions for the new process.
- Collected Functional Requirements.
- Developed a high level conceptual design for integration from e-procurement system to the state's financial systems.
- Conducted research on e-procurement software packages as they related to the state's requirements.
- Collected cost estimates for representative software vendors and the implementation effort which would be required to implement each.
- Collected responses to the Functional Requirements from representative software vendors.
- Participated in the software vendor product/solution demonstrations.
- Developed an implementation workplan.
- Developed a spend data model which will become a part of the e-procurement business case and plan.

Through this analysis, the project team concluded that the State and related entities will produce sufficient spend for goods over a four year period to support a self-funded model. The spend data does not include the purchase of services.

A four year estimate of the project reveals an expected total cost of ownership over that period of approximately \$60 million. Given this spend and the agreed to cost estimate, a business model was developed with a supplier fee that is consistent with those being charged in the public sector marketplace.

## **The Business Model: A New Way of Doing Business**

The State of North Carolina E-Procurement Business Model is a self-funding, public/private partnership between the State of North Carolina and Accenture. Accenture will provide the infrastructure investment required to establish the e-procurement system. The e-procurement service will be run like a business and be governed by an Operating Committee, consisting of personnel from the Office of Information Technology Services, the Department of Administration, and the Office of State Controller.

The State will agree to a planned level of yearly spend, revenue, and costs at the outset of the project. Revenue will be generated through a minimum 1-2% supplier fee, based on the purchase order amount. This fee covers the implementation and operation of the e-procurement service and the statewide portal.

State agencies, state universities, community colleges, and local education authorities will participate. Local and county governments are invited to participate and have indicated interest in participating. By participating, all of these entities can share in process and price savings. Their participation will increase the volume discounts shared by all participants.

The State and Accenture will guarantee a level of revenue to be generated and will assume the shared risk of revenue shortfall below this level. If revenue exceeds this level, the excess will be shared between the State and Accenture according to a formula that increases the State's share as the excess increases. By current State statutes, excess revenues over expenditures may be used by agencies to assist in implementing e-government services for citizens and businesses.

## **Everyone Benefits**

The benefits of this approach are many. Some benefits for the State are as follows:

- No new state appropriated funds for implementation and operation of the e-procurement service
- Significant improvements to business processes resulting in cost savings
- Fiscal support for statewide portal
- Potential long-term funding source for agency e-government initiatives
- Economic development to small North Carolina businesses by facilitating their entry into larger marketplaces
- Direct agency savings in addition to self funding e-procurement service
- Collection and reporting of data useful in managing the state's statewide and agency contracts to leverage buying power for deeper discounts
- Enables agency process cost savings
- Improved standardization with the State's purchasing rules

Benefits for the suppliers are as follows:

- Access to a larger marketplace. Easy access to State Agencies, Universities, Community Colleges, Local Education Authorities and local governments could result in more orders and increased sales for suppliers. Small suppliers may be able to expand into previously untapped markets.
- Online self-registration for new vendors and self maintained vendor registration functionality.
- Improved business process for order receipt. Electronic orders will be sent to suppliers which will reduce cycle times and improve their business process, because hand keying of orders will be eliminated.
- More accurate orders. Electronic transmission and more timely order processing may result in more accurate orders and less returns.
- The procurement card (p-card) usage can be accommodated in the new e-procurement system with greatly improved controls and reporting capabilities.
- Improved automated quoting and bidding processes will result in simpler and more consistent requests.
- Improved information and reporting. Monthly statements will summarize transaction volume and over time enable suppliers to better plan for demand.
- Resulting membership in the North Carolina marketplace can expand beyond the borders of the State. Suppliers who have catalogs in North Carolina will be prepared to perform business electronically in other marketplaces for other states and private sector businesses.
- Bid and Contract information on-line results in more supplier self-service. Suppliers will benefit from easier methods to gather information and perform market research through online queries and downloads.

### **Managing the Risks**

This large-scale e-procurement initiative presents a variety of economic, system implementation, technical, and organizational risks. Major risks and associated mitigation strategies are highlighted in the table below:

| <b>Risk</b>                                    | <b>Mitigation Strategy</b>                                                                                                                                                                                                   |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Vendor resistance to change, including fees | <ul style="list-style-type: none"> <li>■ Explain and market benefits to suppliers</li> </ul>                                                                                                                                 |
| 2. Vendors may increase price to offset fees   | <ul style="list-style-type: none"> <li>■ Service provides information to aggregate buying power and leverage negotiations</li> <li>■ Explain and market the benefits and cost savings from the electronic process</li> </ul> |

## E-Procurement Due Diligence

| <b>Risk</b>                                   | <b>Mitigation Strategy</b>                                                                                                                                                                                                                                           |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. Business model not met                     | ■ Monthly monitoring and action as appropriate                                                                                                                                                                                                                       |
| 4. Lack of support by governing organizations | ■ Development of a working partnership with the organizations<br>■ Regular monitoring and oversight<br>■ Regular status reporting of the project                                                                                                                     |
| 5. Implementation schedule slippage           | ■ Weekly monitoring by the project manager<br>■ Regular monitoring by the Operations Committee<br>■ Regular monitoring and enforcement by the project manager of the firm deliverables and due dates established in the contract with specific remedies for slippage |

### Selecting the Software

As part of the e-procurement Due Diligence effort, Accenture was required to identify an e-procurement solution. Three software products were assessed: Ariba (teamed with Epylon Corporation), SAP (using Commerce One e-procurement software) and Metiom. Accenture based its selection criteria on the business requirements of the State of North Carolina and key best practices in the e-procurement marketplace. After consultation with the State, Accenture selected Ariba/Epylon as the e-procurement toolset for the project.

### Conclusions

After concluding the due diligence phase:

1. The data supports the conclusion that the State is positioned to successfully exercise the e-procurement self-funding model.
2. The Due Diligence Study supports a need for an e-procurement Operating Committee to monitor and manage the risks associated with the e-procurement service, establish and reinforce policies for statewide use of the system, promote fair and consistent supplier relations, and support basic principles of public purchasing. This operating committee will work closely with suppliers and participating governmental entities, oversee implementation activities, and encourage buying through the system.



## FUNCTIONALITY OVERVIEW

The State of North Carolina has specific needs that must be addressed by the e-procurement system. A team of e-procurement specialists have been studying the buying data, purchasing rules and processes, integration requirements, and the technical needs in the State for the past several months as part of the e-procurement due diligence effort. Significant benefits are possible from a statewide e-procurement system, including:

- **Enabling the State to leverage its buying power to obtain the best value for dollars spent** - The solution includes a marketplace component where buyers and sellers can come together over the Internet in an independent environment; suppliers publish once, but are able to sell to many; and buyers are able to share vendor information, practices, and purchasing information. The marketplace will be available to state agencies, universities, community colleges, K-12 schools, and local government.
- **Enabling the State to take full advantage of the latest technology to maximize the value of its procurement process** - The solution includes a robust, scalable, and reliable network application that enables the State to reduce processing costs and improve productivity by automating the procurement cycle and linking end-users with internal approvers and financial systems. It also includes an Internet-based, corporate resource commerce network designed to provide access to large amounts of supplier product information. The network bridges buyers and suppliers on the Internet and offers electronic payment, catalog and content management, order transaction routing, and multi-protocol support for numerous electronic commerce standards.
- **Enabling the State to meet Government-specific needs** - The solution includes government-specific functionality such as Funds Checking, Electronic Posting and Delivery, Purchasing Data Reporting, Electronic Purchasing and Receiving. In addition, the solution offers unique government capabilities such as eQuote, a searchable contracts database, and complete archiving. The solution includes basic functionality relative to capital equipment, eForms, expense management, and procurement charge cards.
- **Enabling the State to implement robust procurement functionality** – The solution will include a fully integrated accounts payable function that provides the required matching of electronic documents. This will insure the integrity of the business transaction from the initiation of the procurement at the requisition stage through the automated payment cycle.

We analyzed several of the leading software options available today and have chosen Ariba, partnered with Epylon Corporation. Accenture has proven experience implementing the Ariba software solution at many organizations, both public and private. In fact, Accenture has deployed the Ariba solution internally with great success. We have analyzed the state's requirements as set forth in the e-procurement Due Diligence contract and have addressed them below. With the State's needs in mind, we believe the proposed solution best reflects

## E-Procurement Due Diligence

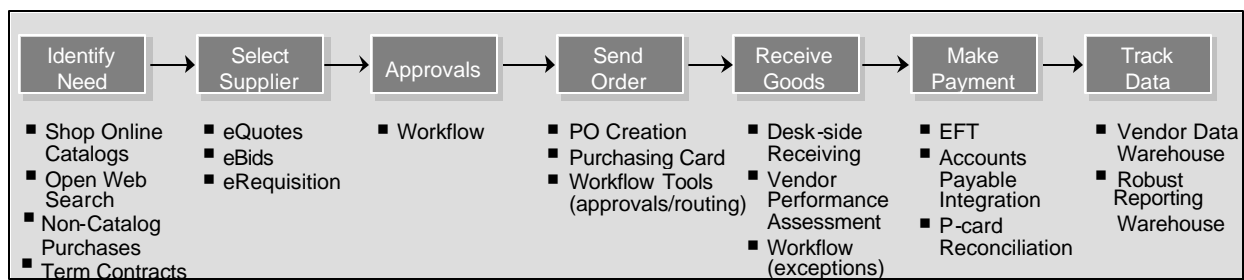
the emerging trends in the marketplace today. Each of the State's e-procurement functional requirements are addressed below:

*Contractor will, in consultation with the State, choose, hold license to, and configure the e-procurement infrastructure, including hardware, software, and database management software, from among the leading solutions in the marketplace, consistent with the State's technical architecture. e-procurement functionality shall provide the following services (some through customs mods):*

a) *Create requisitions for items selected through online shopping.*

Requisitions are created in real-time by the user shopping through catalogs loaded on the network or using non-catalog functionality. Orders are created and transmitted to the vendor/supplier real-time from the requisition at the time of final approval.

The Ariba solution provides public sector functionality designed by Epylon. In designing this solution, the primary objective was to make the purchasing process easier — Ariba and Epylon have done this by including, in one solution, all of the functionality government buyers need, as shown in Figure 3-1.



b) *Route requisitions for approval, consistent with the State of North Carolina and agency-level business rules and provide information on requisition status. The workflow capability must be able to sort and route transactions to central offices by commodity codes or other sort keys.*

The Ariba solution performs requisition and order routing based on the State's business rules. It is able to sort and route transactions to the central offices by commodity codes or any other sort key. These business rules can be very specific - based on any data element and event in the system. For example, a requisition containing a hazardous material item may require the approval of a HazMat expert before ordering. Other common attributes used in business rule configuration are dollar thresholds, supplier attributes (e.g. MWBE), chart of account elements, commodity types, and others.

Optional approvers (called watchers) can also be added based on triggers set in the solution. For example, if the IT director decided to see all requisitions that are over \$100,000.00 and contain an IT commodity code, then the requisition could be sent simultaneously to that person, although their approval would not be required.

*Transmit approved purchase orders to vendors by means of the portals or by facsimile.*

The solution enables suppliers to receive their POs via fax, email, or in HTML format on the Internet. They can also be transmitted and received via EDI and cXML.

- c) *Provide automated receipt for delivered items, and include ability to record condition of receipt and vendor performance.*

The workflow-enabled receiving processes of the Ariba solution allow inspection to be one of the steps of the receiving process. Upon inspection, some items may be rejected and justification documentation can be attached for other parties involved to view. An eForm can be customized to include notes on vendor performance for all to access in the future. Users can also partially receive items. The receipts can be pushed to an ERP for matching and payment process completion.

- d) *Receive electronic invoices and make electronic payment to vendors for items received.*

The Ariba solution currently triggers a payment authorization based on receipt. This feature can be selective depending on the supplier involved, goods/services ordered, and other attributes. With the addition of the accounts payable functionality, the solution will provide electronic payment via EFT and other more traditional payment methods. The fully integrated Ariba accounts payable functionality will be incorporated into the e-procurement service as soon as it is available and meets North Carolina State Government requirements.

- e) *Allow state employees to access key documents relevant to state procurements to selected vendors/facilitate evaluation of bids.*

eBid is Epylon's bidding solution, designed with the public sector's needs in mind. eBid is completely web-based and allows you to maintain vendor lists. It features comprehensive security to allow you to define appropriate access for the myriad kinds of users that the State would support (e.g. registered suppliers, general public, other political entities, etc.). eBid also has functionality that enables tabulation of bid responses on line, allowing for side-by-side comparisons and to evaluate bids according to user defined rules.

- f) *Allow the State to perform auctions and reverse auctions as appropriate.*

For auctions, the Ariba solution will use the Ariba Dynamic Trade application to conduct live surplus and reverse auctions. Ariba will enable users to conduct different types of auctions. Specifically, Ariba will enable surplus auctions which allow the State to auction off surplus property to a community of buyers. Ariba can partner with auction software and services companies which provide the functionality to conduct auctions online, an audience who will be interested in participating in the auction online, and services related to shipping, escrow, etc. Ariba can support reverse auctions which allow the State to post request for pricing for large ticket items. Suppliers will respond online, allowing them to compete for business by viewing the best response and trying to beat that response. Reverse auctions can be configured in many different ways depending on the State's needs.

- g) *Selected software must be capable of:*

- i. *Dividing and reporting any applicable state and county sales tax*

The Ariba solution supports tax calculation and capture throughout the entire requisition-to-reconciliation process. This is done through a third party software application called

## E-Procurement Due Diligence

Taxware that can integrate with Ariba and provide tax estimates at the time of requisitioning. The true tax liability is included on the invoice sent from the supplier to the buyer and is part of the matching process.

### *ii. Meeting HUB reporting requirements*

The Ariba solution allows many attributes to be tracked by supplier, commodity/service line, etc. Examples include HUB-designation, whether a commodity item is part of a term contract and/or a recyclable item. Any of the attributes can be incorporated into the reports and queries.

### *iii. Processing posting and receipt of electronic bids and related functions*

eBid allows agencies to post solicitations on the web, and allows vendors to receive those solicitations via the web. Solicitations may contain unlimited text and attachments. eBid tracks vendor receipt, including the exact time, of all bid documents including addenda. Buyers will have a record of receipt of vendor receipt of documents. While some of the above functionality is currently available in the Interactive Purchasing System, with eBid, suppliers will also have the ability to submit their bids electronically and the State can track supplier responses and the exact submittal time.

### *iv. Checking funds in financial systems prior to purchase order transmission.*

The Ariba solution has the capability to initiate funds checking in corresponding financial systems. Funds will be pre-encumbered when the requisition is first submitted for approval. When the requisition receives final approval and turns into a PO, the pre-encumbrance will be relieved and funds will be encumbered. The Epylon solution APIs allow this to occur in real-time or in a batch mode. Ariba provides off-the-shelf *adapters* to integrate with SAP, Oracle, PeopleSoft and JD Edwards applications. Ariba also provides a Customizable Adapter for completing integration with other applications, such as GEAC.

The Ariba solution has the ability to connect to multiple external systems simultaneously. For example, commitments can be made in the DOT's (future) SAP application or in the State's NCAS system.

In our workplan, we have allocated time and resources to integrate the Ariba solution with five financial systems, including NCAS, the Department of Transportation, one university, one community college, and one LEA. For other financial systems, the funds checking task will initially be performed manually. As part of implementation, we will configure a workflow routing rule to automatically route the request for manual funds checking and encumbrance process for all entities in order to streamline the process.

### *v. Integrating with GEAC and other financial systems for purchasing and accounts payable functions.*

The Ariba solution has the ability to integrate with any external system, either via batch or on-line communication. This includes the ability to trigger payments in accounting systems. We will be integrating with NCAS, as well as four other systems. For other systems a program that delivers a flat file of all items received and ordered will be generated.

## **E-Payment**

During due diligence, we have learned the necessity for the State to increase the efficiency of the payment process. The new e-procurement system will aid the State in accomplishing this goal by providing e-payment functionality as a part of the Ariba e-procurement solution. This solution provides many safe and secure methods of facilitating e-payments, such as EFT, EDI, p-card, and more traditional accounts payable options. Should North Carolina choose to use p-cards, this option can be easily added. Under this approach, authorized application administrators can associate p-card payment methods with selected suppliers and buyers through a password protected enterprise management tool. If so desired, application administrators can configure the system so that the use of a p-card on a transaction is completely transparent to the user – only the supplier will be able to view the p-card number associated with the order. Should application administrators desire additional safeguards, business rules can be created that determine what types of transactions (e.g., dollar based, commodity code based, user based) are applicable for e-payment processing. The state can also reap the benefits of the Ariba solution's robust reconciliation and audit trail functionality, which tracks all p-card purchases and helps ensure user compliance with state purchasing guidelines.

Another way to improve efficiency of payments is through process re-engineering of the current system. We have allocated time in the implementation workplan to analyze the payment process and introduce re-engineering and streamlining opportunities for the State to achieve more efficient payment for vendors.

## **Single face for Procurement**

During Due Diligence, the State identified the need to have one purchasing system that would be the single face for procurement for all purchases by the agencies in the State of North Carolina. During the design phase of the project we will develop the exact procedures for this process. It will consist of the following steps:

- **Data Purification** - We will work with the State on the data purification effort to scrub the vendor database, concentrating on the vendors that currently do business with the State of North Carolina.
- **Vendor Conversion** - After the vendor data has been purified, we will populate the vendor information from the VendorLink database and the NCAS vendor database to the Ariba e-procurement vendor database. The vendor information converted will include commodity codes available for the State. The vendors that choose to "participate" in the new e-procurement system will have their catalogs accessible by North Carolina buyers on the Epylon/Ariba system, however, buyers will still be able to purchase items from all vendors via the non-catalog buying functionality. It is also important to note, that over 50 of North Carolina's vendors currently exist on the Ariba solution as Epylon suppliers. These vendors already understand the benefits of e-procurement and are transacting today through Epylon's service offerings. Also, over 20,000 suppliers have created catalogs for various companies/agencies using the Ariba

## E-Procurement Due Diligence

Commerce Services Network. Many of these suppliers are also North Carolina suppliers. NC suppliers that are already loaded on the Ariba Commerce Services Network can leverage prior catalog loading efforts.

- **Non-Catalog Purchasing** – Because we understand that the supplier adoption process will be ongoing, we want to ensure that North Carolina can purchase from vendors with whom it currently conducts business while the supplier adoption program ramps up.

## **INTEGRATION**

### **Background**

Integration of business systems is a challenge for all organizations. This is particularly true in government environments and in particular for the State of North Carolina. The State has numerous financial and purchasing systems which currently do not integrate with the NCAS (e.g. NC DOT, 3 different types of University Systems, LEAs, Local Governments, other individual agency systems, etc.).

Integration, as referred to in this document, is the ability for the State to exchange information between enterprise systems and the Ariba solution, eliminating the need for manual transfer of critical information.

Most e-procurement packages rely on Enterprise Application Integration (EAI) technologies to integrate their solution to an existing ERP package. EAI frameworks and products from vendors such as CANDLE, TIBCO, IBM and others are used to integrate e-procurement packages to ERP packages. These solutions typically offer a "hub-and-spoke" architecture that allows new systems to plug into the EAI infrastructure through the use of adapters. The hub provides core services for message routing, transformation and management of the associated metadata about the EAI participants. E-Procurement packages also provide delivered integration to major ERP packages (SAP, PeopleSoft, Oracle) and generic integration framework for other ERP systems (e.g. GEAC).

### **The Solution**

An organization's ERP systems represent their central nervous system, a backbone for critical managerial and operational information flow and processes. Epylon was designed from its inception to leverage that backbone while delivering measurable benefits. The solution is delivered with synchronous, real-time integration and asynchronous integration with leading ERP packages (e.g. SAP, PeopleSoft, Oracle).

Through Ariba, Epylon has partnered with leading EAI vendors such as TIBCO and IBM to deliver enterprise integration as an integral part of Epylon's product offering. This integration provides pre-built and pre-tested integration with leading ERP solutions as well as interaction with databases and flat files. Changes to this integration to reflect ERP customizations are implemented using graphical tools to alter the metadata about the Ariba-to-ERP mapping, not through core logic modifications. Customers can implement the solution to deliver ROI and leverage their investments in systems infrastructure without the pain and cost of constructing system interfaces from scratch.

### **Synchronous or Real-Time Integration**

For synchronous integration, Epylon provides a set of documented “exit points” that support on-line invocation of external logic for validation (e.g. funds checking), real-time interfaces, defaulting of values, etc. There are exit points at the field level, for example, when a field is entered, and at the transaction status transition level for the approvable, for example when a requisition is submitted. These exit points are configured using XML and parameter files to invoke external Java classes that are contained in a separate directory from the core Epylon logic. This allows customers to implement on-line interfaces at the desired exit points without core logic modifications.

### **Asynchronous Integration**

Epylon provides an Integration layer to pull data from and push data to other systems. Epylon can integrate with a wide variety of sources within the enterprise infrastructure. Epylon can pull "building block" data such as user details and company/account/center structures from ERP systems such as SAP, Oracle, PeopleSoft or Geac, and can push data such as requisitions, purchase orders and associated accounting details back to these systems. Epylon can also integrate with other resources on networks such as databases, flat files, and LDAP directories.

### **A Generic Integration Framework**

Epylon contains integration interfaces for inbound and outbound communication that provide an integration framework. This integration framework is architected to allow integration with multiple EAI vendors. TIBCO is the delivered EAI product for Epylon. Integration with MQ Series is part of Ariba's partnership with IBM and is due in the near future.

In generic terms, the key aspects of an EAI solution are:

1. A reliable Message Transport for delivery of messages across multiple hardware and OS platforms. This is sometimes referred to as the messaging hub or bus.
2. Adapters or other mechanisms for Epylon and external applications to send data to and receive data from the integration hub. These are sometimes referred to as spokes.
3. Message Transformation to map Epylon object attributes (schema) to the corresponding formats the external systems expect.
4. Metadata Management for Epylon and external system schemas and the associated transformations.

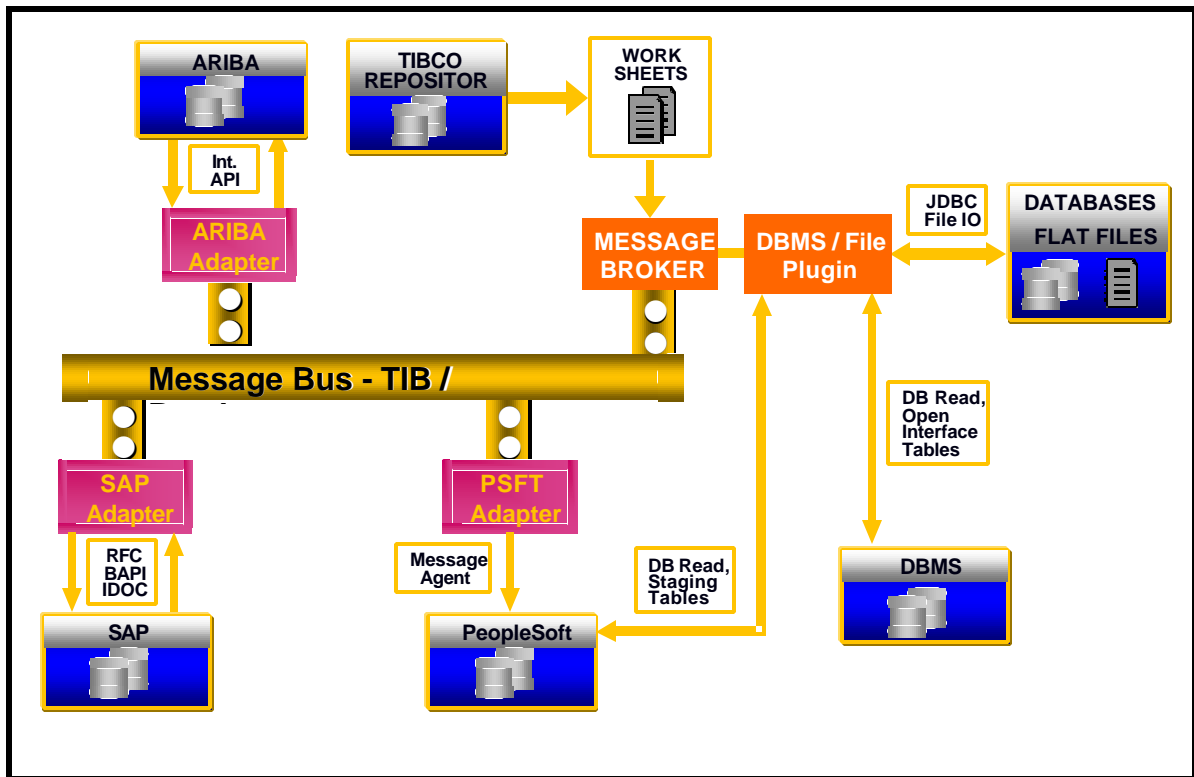
### **Epylon and TIBCO**

Epylon has a set of TIBCO enterprise adapters that are designed specifically to connect to or integrate with leading finance, human resource management, and enterprise resource planning systems. Epylon adapters can integrate with standard installations of these systems or can be configured to integrate with custom implementations of the enterprise system. These adapters enable a single Epylon system to integrate with multiple enterprise



applications simultaneously (a feature that will be very useful for the State of North Carolina.)

The following diagram details the various components that Epylon and TIBCO use for integration with other applications, databases and flat files.



## Push and Pull Adapters in Ariba

### Pull Adapters

Pull adapters allow Ariba to leverage the data entry done in other systems. The following data is typically pulled:

- Users
- Catalogs
- Accounting data
- Supplier locations
- Suppliers
- Addresses

### Push Adapters

Adapter pushes are used primarily for transactions. Transactions are units of data created in Epylon by users. Following are two examples of where push adapters would be used:

- To generate an encumbrance, a push adapter would use purchase order totals to insert the appropriate encumbrance into the ERP
- To generate an invoice after receiving, a push adapter would pass the information to create an invoice in the ERP

### SAP/Ariba Integration

Epylon provides out-of-the box adapters for SAP. Ariba's integration technology and solutions have produced many successful Ariba/SAP implementations. These implementations span many industries and implementation complexities. A partial list of Ariba/SAP implementations include:

|                        |                     |
|------------------------|---------------------|
| Alcoa                  | IBM                 |
| Autodesk               | LaPorte             |
| Bell Canada            | Lloyds TSB          |
| BMW                    | MCI Worldcom        |
| Boehringer Ingelheim   | Motorola            |
| Bristol-Myers Squibb   | Novartis            |
| BuyOne                 | Nestle              |
| Cadence                | Orica               |
| Caltex Petroleum       | Pillsbury           |
| Chevron                | Phillips            |
| Citizens Communication | Sony – Japan        |
| Diageo                 | Swissair Group      |
| Dow                    | Telecom New Zealand |
| Earthgrains            | Texaco              |
| Engelhard              | Unilever            |
| Hewlett Packard        | VF Corporation      |

### NCAS Integration to Ariba

Integration with NCAS will be accomplished in stages using the Generic API Adapter described earlier. The Generic API Adapter provides integration with existing and legacy systems to interface information with Epylon on a real-time or scheduled basis. Epylon delivers standard methodology and operating templates for integrating to legacy enterprise systems.

Ariba has been integrated to GEAC at four Ariba Clients:

- Sunoco (M and E Series)
- TransAmerica (E Series)
- Union Bank of California (E Series)
- Visa International (M Series)

The project team will perform the following integration related tasks:

- Perform Initial Epylon Set-up and Ongoing Maintenance for:
  - Vendors
  - Items (Catalogs)
  - Contracts
  - Users (ongoing maintenance to be transferred to the State)
  - Workflow (ongoing maintenance to be transferred to the State)
- Integrate Epylon to NCAS to perform real-time validation of Chart of Accounts and security validation
- Integrate Epylon to NCAS to perform real-time funds checking and commitment of funds at the point a requisition is created
- Purchase order information will be pushed to NCAS. Receiving will be performed through the Epylon Solution. Receipt information will then be pushed to NCAS to allow the processing of payments.

Evaluated Receipts Settlement (ERS) can be implemented as a part of this solution. Under this approach, two-way matching will be enabled for all or selected suppliers.

The approach to the State-specific integration requirements to the NCAS will need to be confirmed with OSC personnel. Additionally, OSC technical personnel will need to assist in developing the integration between the two systems. This approach will additionally utilize the State's common services infrastructure.

### **Epylon Integration to the State's other financial systems**

Certain entities in North Carolina may want to pursue a fully integrated solution with their non-NCAS legacy or ERP systems. Only integration to NCAS, DOT, one university, one community college, and one LEA has been estimated as part of the e-procurement business model. These organizations will be chosen based on the ability to replicate this integration at other locations. Additional integration not in the scope of this business model will be considered by the Operating Committee on a case by case basis.

## **HOSTED ENVIRONMENT**

The proposed solution is fully hosted, taking advantage of the latest technology, industry standards, and business practices to enable the State to maximize the value of its procurement processes. Accenture will partner with a hosting provider to host servers and provide support services when requested.

### **Web Site Monitoring**

Epylon has established a process designed to detect performance and reliability problems before they have an impact on users. A suite of watchdog applications – Mon, Cricket, Swatch, and Analog are examples – poll the Epylon servers on a constant basis to proactively detect error conditions. Servers refusing a connection prompt an error message that is automatically escalated to a system administrator. Some failures cause the watchdog application to switch operations to an appropriate standby server. This standby/backup server will then pick up processing while the primary server's problems are analyzed and corrected.

### **Web Host Computer Controls**

Epylon's administrative policies and procedures help increase security by thwarting unauthorized access to the application and transaction data and by preventing intrusive "hacking" attacks. The physical plant will be housed in a securely controlled data center.

Epylon's equipment is housed in a raised-floor, HVAC environment, with separate cooling zones and seismically braced racks. In the event of a power failure, backup power is delivered via a uninterruptible power supply (UPS) with generator backup and with dedicated circuit breaker protection and scalable power to the solution's servers. The fire suppression system has separate zones below the floor and above the ceiling plus specialized heat/smoke sensors. Support technicians are present on-site at all times, and are supported by an automatic call distribution system that manages incident tracking and notification of off-duty technicians as needed.

In addition, the hosting provider's physical plant must be specifically designed to minimize the potential impact of a natural disaster. Contingency plans will be in place to restore full functionality to the solution's headquarters within 72 hours following a natural disaster (e.g., earthquake) as necessary.

### **Disaster Recovery**

Although the Epylon Solution is an extremely reliable product, there is the chance that the application could be disrupted due to a disaster beyond the project team's control. To help mitigate this risk, a business continuity plan will be developed prior to the implementation of the e-procurement solution. The business continuity plan will establish guidelines for the re-establishment of transaction processing within an agreed upon time period after a disaster.

## E-Procurement Due Diligence

In addition, the plan will ensure that all of the State's business continuity concerns are addressed.

### **Web Host Staffing**

Trained staff will be on-site at the hosting provider 24 hours a day and the e-procurement solution staff will be on-call 24 hours a day. The solution uses a sophisticated monitoring system to automatically alert the staff member on call should a problem occur.

Epylon will draw upon the following Network Operations Staff:

- Internet Data Center Manager (IDC Manager)
- Project Manager
- Network Control Center Engineer
- Network Engineer
- Installation Engineer
- Systems Administrator (qualified by operating system or database program)

### **Upgrades and Modifications**

Upgrades and modification rollouts of the solution will be managed by the hosting partner. All users will be notified in advance of the conversion date. No peak-hour system downtime is anticipated to affect migrations, as these are generally completed over weekends or holiday periods.

The Epylon solution is built with standard Internet technologies. As such, the State users with a standard Web browser will be able to access all basic functionality of the site. Epylon plans to continuously update and improve the solution in accordance to feedback from North Carolina and other users. Accenture will promote and support these plans.

## **SERVICE LEVEL AGREEMENT (SLA)**

### **Service Level Agreement Development Process**

The Service Level Agreement (SLA) will focus on providing acceptable service to the State on a daily basis in the ASP-hosted solution. The SLA establishes and defines the service levels agreed to by Accenture, Epylon, and the State team. A combination of Accenture and the hosting provider will monitor and report on system performance to determine compliance with the SLA. These reports will be submitted to the E-Procurement Operating Committee.

To create the SLA, the following tasks should be completed by both the team and the State's project management:

- Develop the Service Level Agreements
- Determine key performance indicators (KPI)
- Coordinate and negotiate KPI objectives
- Document KPI objectives for the online and batch services provided by the solution team
- Establish monitoring criteria and techniques

Although the SLA will be developed and negotiated jointly with the State, the following four sections should provide a strong starting point for discussions:

### **Application Response**

The solution will be constructed to meet the requirements of the State users in terms of performance and reliability. The team is committed to proactive, continuous performance monitoring of the system in an effort to better serve the State whenever possible.

Agreed upon tools will be used to monitor the response time of the proposed solution. The tools can then compare the solution response time against an average of other top-performing sites.

Continual system performance tuning will be required to maintain these performance levels as the size of the database and number of users grow over time. Some reports involving complicated database queries may need to be restricted to maintain performance levels and assure access to the core application processes. These processes will either be restricted to certain times or will be excluded from performance-level agreements. Implementation of a data reporting mechanism would help to ensure the availability of secondary data sources that would perform the majority of these currently unsupported operations.

### **Network Availability & Responsiveness**

The Network Availability SLA will cover those portions of the network operated by the Accenture team. All of the networking equipment in the e-procurement solution, such as routers, switches, firewalls and load balancers, are fully redundant so there are no single points of failure.

### **System Availability**

The solution is architected for maximum availability during peak usage hours. The System Availability SLA will provide guarantees designed to minimize unplanned system downtime. Scheduled system downtime will be required to perform operations functions. A regular schedule will be determined, with changes to that schedule being coordinated through the Accenture team and the State's project management.

The proposed e-procurement solution has been designated to promote a stable and responsive environment for the State's users. Fault tolerance and resiliency have been designed into the system. This solution will include layers of redundancy and fail-over solutions to include multiple, redundant, and load-balanced Web and application servers in concert with clustered database servers to a multiple shared file system configured with Redundant Array of Inexpensive Disk (RAID) storage devices. Each server will have RAID disk subsystems to protect against drive failure. Multiple, redundant network connections and power supplies will be standard for all equipment. The solution has been designed so that a failure in any single piece of equipment will not reduce the availability of the site.

### **Problem Resolution**

The Accenture team in concert with State management will provide details of the problem resolution processes and procedures. They will include business hours access to the project manager and a technical support staff. Business and after-hours support will be available through a call center, with guaranteed response times and escalation procedures for unresolved issues. Mission-critical operations will have appropriate priority response time measured in hours.

### **Disaster Recovery**

Before implementation, data recovery options will be addressed to ensure a rapid return to operations in the event of a natural disaster. The various recovery means available will be analyzed and a business continuity plan will be presented to the State. This plan will establish guidelines for the re-establishment of transaction processing within an agreed upon time period after a disaster. In addition, the plan will ensure that all of the State's business continuity concerns are addressed.

### **Monitor Performance**

Performance of the Accenture solution will be monitored via reports and spot-checks. Accenture and Epylon will monitor and report on system performance to determine compliance with the SLA. It is anticipated that a performance monitoring plan and schedule will be established by the State and the Accenture team prior to project inception.

### **SLA Objectives and Processes**

Identified below are the objectives that could be used in developing the SLA for North Carolina. It is anticipated that the e-procurement management team would meet prior to the project inception to develop the actual SLA. The following tables act as a starting point for these discussions.

**Table 1. Service Objectives for Uptime and Timeliness**

| <b>Service Area</b>        | <b>Metric</b>                  | <b>Tracking Process</b>                                                                                                             |
|----------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Solution Availability      | Weekly Uptime                  | Accenture provides tracking tools. This includes website monitoring statistics and weekly availability reports distributed monthly. |
| Web Hosting Services       | Weekly Uptime                  | Accenture provides tracking tools and weekly tracking reports distributed monthly                                                   |
| Customer Care Services     | Monthly Satisfaction Scorecard | Scorecard is provided monthly                                                                                                       |
| Service Request Turnaround | Days to Complete               | E-Mail Confirmation                                                                                                                 |



## **ORGANIZATIONAL IMPACTS OVERVIEW**

Implementing e-procurement in North Carolina has the potential for significant organizational impacts: from the streamlining of the procurement process in agencies where purchasing has been largely a manual process, to the empowerment of requestors who now may make online purchases. The decentralized and diverse nature of the existing procurement processes means that responses to the change may vary by organization and even by individual. Successfully managing the organizational impacts of e-procurement will result in success for the State.

Two large stakeholder groups will be primarily affected: suppliers and users of e-procurement. Both of these groups will require extensive interactions with the E-Procurement Team because their cooperation and participation is critical to the success of North Carolina's e-procurement solution.

The E-Procurement team will consist of Accenture, Ariba, and Epylon resources, plus any subcontractors with the State providing oversight and State subject matter experts.

The E-Procurement Team will develop a detailed plan for user and supplier acceptance:

- **User Adoption Program** – describes the process and methods the E-Procurement team will use to work with users in the agencies, universities, community colleges, LEAs, and local governments with the goal of having all designated users participate in the e-procurement program.
- **Supplier Adoption Program**- details a plan to gain supplier participation in the NC E-Procurement Solution, including marketing approach and methods. Main components include sections on benefits, supplier enablement, and HUB suppliers.

Adoption programs for both users and suppliers include communications, marketing, training and performance support, and collaborative decision-making.

|                                         | USERS                                                                                                                                            | SUPPLIERS                                                                                                                             |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Communications and Marketing</b>     | <ul style="list-style-type: none"> <li>■ Benefits</li> <li>■ Demonstrations</li> <li>■ Sponsors and Champions</li> <li>■ Requirements</li> </ul> | <ul style="list-style-type: none"> <li>■ Benefits</li> <li>■ Demonstrations</li> <li>■ Requirements</li> </ul>                        |
| <b>Training and Performance Support</b> | <ul style="list-style-type: none"> <li>■ Training</li> <li>■ Help Desk</li> <li>■ Super-Users</li> <li>■ Job Aids</li> </ul>                     | <ul style="list-style-type: none"> <li>■ Education</li> <li>■ Help Desk</li> <li>■ Tools</li> <li>■ Assisted Catalog Entry</li> </ul> |
| <b>Collaborative Decision-Making</b>    | <ul style="list-style-type: none"> <li>■ Buying Authority</li> <li>■ Roles</li> <li>■ Business Rules</li> <li>■ Process</li> </ul>               | <ul style="list-style-type: none"> <li>■ Roles</li> <li>■ Process</li> <li>■ Catalog</li> </ul>                                       |

- **Communications Plan** – outlines the communication goals and provides a communication matrix detailing the stakeholder audience, audience type, channel, key message, frequency, and feedback mechanism for planned e-procurement communications.
- **Training Plan** - describes the training goals and objectives, planning method, and main components such as the training pilot, train-the-trainer program, help desk and other training support, and a sample training agenda.
- **Collaborative Decision-Making** - identifies organizational impacts and issues for stakeholders in the group. Team members will perform a Needs Assessment to confirm issues and plan strategies. Assessment results will be a primary input for collaborative decision-making with agencies, universities, community colleges and LEAs. Examples of key issues include role changes, business rules application, cost of participation and bid/contract negotiation for suppliers.

## **Needs Assessment**

During the Initial Phase, the E-Procurement Team will study anticipated organizational impacts and prepare strategies to deal with them by creating a Needs Assessment for each agency, university, community college, LEA and local government that participates. Techniques for data collection and collaboration include focus groups, interviews and group meetings.

The needs assessment process includes the following:

- Identifying stakeholders
- Analyzing needs
- Assessing impact
- Planning strategies
- Implementing plan
- Assessing results
- Revising plan

As part of the Due Diligence effort, team members met with government officials and facilitated two focus groups to begin the needs assessment process. Focus group participants from agencies, universities, community college, and local and county governments talked about strengths and weaknesses of present systems and processes, discussed e-procurement requirements and identified potential issues (see appendix for focus group reports).

The following table highlights potential issues and strategies to address them identified by the team during the due diligence phase.

| <b>Issue</b>                                  | <b>Strategy</b>                                                                                             | <b>Comments</b>                                                                                                                                                                                                                             |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suppliers may resist change                   | <ul style="list-style-type: none"> <li>■ Supplier Adoption Program</li> <li>■ Communication Plan</li> </ul> | <ul style="list-style-type: none"> <li>■ Use communication, collaboration, system demonstration, marketing</li> <li>■ Create list of benefits</li> <li>■ Capitalize on support systems already in place at the software provider</li> </ul> |
| Buyer role may become several different roles | <ul style="list-style-type: none"> <li>■ Collaboration</li> <li>■ User Adoption Program</li> </ul>          | <ul style="list-style-type: none"> <li>■ Decision-makers to identify buyers (if any) who will take on approver role</li> <li>■ Additional training needed for some buyers</li> <li>■ Create guidelines for approval process</li> </ul>      |
| Users may resist change                       | <ul style="list-style-type: none"> <li>■ User Adoption Program</li> <li>■ Communication Plan</li> </ul>     | <ul style="list-style-type: none"> <li>■ Use collaboration, communications, system demonstrations, and sponsor, champion and super-user networks to promote the change</li> </ul>                                                           |

## E-Procurement Due Diligence

| <b>Issue</b>                                  | <b>Strategy</b>                                                                                 | <b>Comments</b>                                                                                                                                                                                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Some suppliers are not online                 | ■ Supplier Adoption Program                                                                     | <ul style="list-style-type: none"> <li>■ Roll out to web-enabled first</li> <li>■ Catalog entry assistance through The software provider</li> <li>■ Gather data on suppliers</li> </ul>                                                                       |
| Large numbers of users                        | ■ Training Plan                                                                                 | <ul style="list-style-type: none"> <li>■ Train-the-Trainer</li> <li>■ Super-user networks assist inexperienced users on the job</li> </ul>                                                                                                                    |
| Measure effectiveness of training             | ■ Training Plan                                                                                 | <ul style="list-style-type: none"> <li>■ Benchmarks</li> <li>■ Evaluate training</li> <li>■ Revise program as needed</li> </ul>                                                                                                                               |
| Ongoing need for assistance with using system | ■ Training Plan                                                                                 | <ul style="list-style-type: none"> <li>■ Online help</li> <li>■ Help desk</li> <li>■ Super users</li> <li>■ Create FAQs/Job aids</li> <li>■ Revise training as needed</li> </ul>                                                                              |
| Who has authority to buy?                     | <ul style="list-style-type: none"> <li>■ Communication Plan</li> <li>■ Collaboration</li> </ul> | <ul style="list-style-type: none"> <li>■ Identify decision-makers, present choice of models before roll-out</li> <li>■ Phases overlap – prepare for next phase during this phase by communicating ahead</li> <li>■ Handouts of rules and processes</li> </ul> |
| Agencies may resist the change                | ■ Communication Plan                                                                            | <ul style="list-style-type: none"> <li>■ Use Model Office simulation</li> <li>■ Required reports, sponsor, champion and super-user networks to promote the change</li> <li>■ Analyze and communicate options</li> </ul>                                       |
| Change is mandated                            | ■ Communication Plan                                                                            | <ul style="list-style-type: none"> <li>■ High authority deliver message</li> <li>■ Follow message with FAQ communications</li> <li>■ Get input from other successful projects</li> <li>■ Measure compliance and progress</li> </ul>                           |
| Not all systems will be integrated            | <ul style="list-style-type: none"> <li>■ Communication Plan</li> <li>■ Collaboration</li> </ul> | <ul style="list-style-type: none"> <li>■ Measure improvements</li> <li>■ Use Model Office simulation</li> <li>■ Recommend options</li> </ul>                                                                                                                  |

## **USER ADOPTION PROGRAM**

In order to achieve buy-in from North Carolina Government entities and buyers/requestors, we must first understand the issues that are important to users. In the Initial Phase, the E-Procurement Team will identify user issues using interviews, meetings and focus groups. Below is a list of potential key issues concerning users:

- Many users are resistant to change, simply due to human nature and habit.
- Users may believe that e-procurement will make their job more difficult or cumbersome, or they won't be able to deal with the same suppliers.
- Current roles will change due to the impact of e-procurement. Buyers especially may be concerned about the impact.

### **Needs Assessment**

The E-Procurement Team will perform a supplemental needs assessment at agencies, universities, community colleges, LEAs and local governments that participate in the e-procurement solution. The assessments will be based on information gathered by the team during interviews, meetings and focus groups. The needs assessment will be used by the team to understand and deal with issues specific to implementing e-procurement at that government entity. Among other items, the team will use the needs assessment data to identify:

- Level of management support required for the e-procurement initiative
- Potential sponsors and other key influencers
- E-procurement readiness
- User characteristics such as level of education and familiarity with web-based applications
- Number of users who are web-enabled
- Culture and history of success with other initiatives
- Specific e-procurement requirements, business rules or concerns
- Current number of buyers, requestors and approvers
- Existing approval workflows
- Interface strategy if no integration is currently planned

### **Collaboration**

Once the needs assessment is complete, the team will work collaboratively with the agency, university, community college, LEA or local government to plan the e-procurement implementation at that entity. Collaboration is a key technique for dealing with resistance to change because people participating in a change tend to feel more in control and are therefore much more likely to promote the change than resist it. Collaboration for e-procurement implementation will be based on the needs, issues, and concerns of the specific government entity, based on the outcomes from the needs assessment.

For example, the needs assessment might uncover that in a particular local government, purchasing is currently a manual process and that most buyers are not familiar with web-based applications. The team might recommend to the local government that training include basic computer skills and additional practice supported by the help desk and peer super-users. In this way, the team will work collaboratively with the entity to ensure that the implementation of e-procurement takes into consideration the outcomes from the needs assessment. Generally, users will be included in team tasks such as planning, testing the system, and reviewing training.

### **Sponsor, Champion and Super-User Networks**

Another useful method of promoting change is to create networks of people who support the change. Sponsors are high-level officials such as elected officials, agency heads, and others who have influence over large groups of people. Champions can be middle-level people who act as advocates, always seeking ways of promoting e-procurement. Super-users are people who have developed expertise with the software solution. Super-users can answer questions about the system and assist others who are still learning. Networks of sponsors, champions and super-users will promote e-procurement by supporting the change at all levels.

During the needs assessment, and working collaboratively with the agency, university, community college, LEA or local government, the team will identify potential e-procurement sponsors, champions, and super-users for e-procurement for that government entity. Communications describing the role will be sent to each candidate.

Upon acceptance of the role, the sponsors and champions will receive e-procurement demonstrations, user training and progress updates through network meetings, workshops and e-mail. Sponsors and champions will be expected to support the implementation of e-procurement at the entity and raise issues when necessary.

Super-users will be identified during training. They will be selected from the group of users who are quick learners, show an aptitude for helping others and are interested in promoting e-procurement. Names of e-procurement super-users will be communicated to general users so that those who need assistance can ask questions of a peer who is a super-user whenever necessary. The super-user network is not intended to replace traditional training support such as the help desk, but to provide additional help that is readily available on the job.

The team will provide sponsors, champions and super-users with guidelines and other support materials to assist them in their roles.

### **Communications**

Communications will be one of the keys to the successful implementation of e-procurement in North Carolina. Communications will be used to inform, persuade, generate enthusiasm, and reduce fears. Two-way communications such as focus groups can provide feedback for the team. Initially, the team will use communications to reduce barriers to accepting e-procurement. The two most significant potential barriers to users using a new e-procurement solution are users resistant to the change and users not receiving consistent, timely, and relevant information.

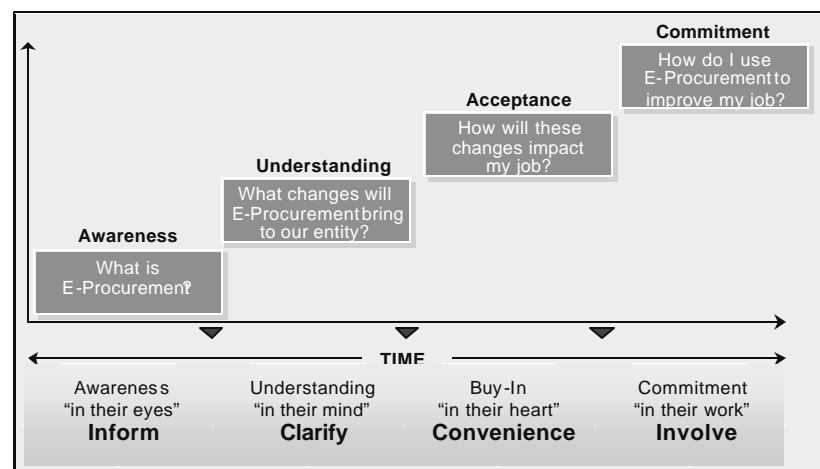
### **Resisting the change versus embracing the change**

This potential barrier to success magnifies the importance of having all members of the State community understand the breadth of the implementation activities. All members must recognize the importance of their involvement in the implementation and understand the anticipated benefits of the implementation effort.

### **Lack of consistent, timely and relevant information**

This potential barrier to success underscores the importance of consistent, timely, and relevant communications as a way to develop and sustain support for the implementation.

Effectively delivered communication to users will foster ownership and significantly accelerate acceptance of the solution. Timely, open, and honest communication will also help to reduce conflict and resistance. The figure below depicts potential questions the State will have to answer in order to move users from a general awareness of the solution. It also shows the objectives the State hopes to achieve by implementing the solution. Clearly, the goal is commitment to the solution.



**Stages of User Acceptance**

## **SUPPLIER ADOPTION PROGRAM**

Supplier participation is critical to the success of e-procurement in North Carolina. The goal of the Supplier Adoption Program is to help suppliers increase sales and lower operating costs, thus making the e-procurement solution attractive to suppliers.

To achieve this goal, Accenture and the State of North Carolina will make a commitment to the Supplier Adoption Program. Together, we will meet with targeted suppliers and market the e-procurement solution. P&C and ITS will negotiate contracts with suppliers, and Epylon will assist the State with regards to loading these contracts into the e-procurement system. The Supplier Adoption Program combines traditional communications with more innovative marketing and collaboration techniques to achieve a comprehensive program.

### **Marketing**

In order to jump-start the e-procurement program for North Carolina, the team will develop a marketing approach that outlines the measurable benefits suppliers will receive from the new system (e.g. increased sales and lower operating costs), describes the new processes, and defines the timeline for conversion.

The team will communicate to suppliers that contracts will be brought onto the new system based on the current renegotiation dates with a few exceptions, and that the supplier contracts will be renegotiated to include the supplier fee. The supplier fee will be mandated by the State for suppliers that are online in the new e-procurement system.

### **Approach**

Our approach increases momentum for e-procurement in North Carolina by steadily gaining supplier participation.

- As suggested by P&C, suppliers will be activated by contract. This approach will allow the State to bring on all vendors for a particular contract at the same time. Once a contract is re-established, all agencies will be directed to purchase from this contract through the e-procurement service. With a few exceptions (e.g. large contracts), contracts will be brought online to the e-procurement system based on the current contract renewal date.
- As contracts expire, language requiring suppliers to participate in the e-procurement solution and pay the associated fees will be incorporated into the terms and conditions for the new RFPs.



## E-Procurement Due Diligence

- The team will target the larger contracts (dollar amounts) and renegotiate some of them earlier than their normal renewal timeframe. However this will be the exception rather than the rule.
- The team will identify and target a sample of HUB suppliers to bring aboard early in the process. These suppliers may require additional efforts such as assistance in getting their catalogs online. They will serve as examples for additional HUB suppliers.
- The team will also target other North Carolina suppliers such as small businesses that are not on state contracts or in HUB supplier groups but are important for the State to conduct business.

## Methods

The E-Procurement Team will use multiple means to achieve supplier adoption, including collaboration, communications, supplier enablement and HUB outreach programs.

## Collaboration

As with buyers, the E-Procurement Team expects to collaborate with State resources in order to encourage suppliers to join the e-procurement program. The team will work with suppliers to get registered and bring their catalogs online. Successes and challenges identified during the early adoptions will be used to refine communications with suppliers and allow for an expedited ramp-up during the months that follow. Team members will work to provide suppliers with information about how they can use the solution to increase their efficiency while selling to North Carolina and to others in the expanded marketplace.

## Communications

Suppliers will be the recipients of many communications from the E-Procurement Team. Key messages will be designed to promote participation in e-procurement and will include benefits of participation, timeframes for rollout to various agencies, lists of suppliers already on the system, demonstrations of the system, and available resources such as procedures for creating reports. Input and feedback from suppliers may be collected by the team through focus groups, interviews, and meetings. Such information will be instrumental in allowing North Carolina to meet the needs not only of buyers, but also the suppliers critical to the success of the e-procurement initiative. For more information on communications, see the Communication Plan section.

### **Supplier Benefits**

A key communication to suppliers will focus on the benefits suppliers will gain by participating in North Carolina's e-procurement system. Tangible and intangible supplier benefits include:

- Faster receipt of orders
- Increased accuracy of orders
- Real-time order status information
- Automated order management
- Electronic payment
- Decreased operating and marketing costs
- Increased contract compliance
- Enhanced supplier image through web presence

### **Supplier Enablement and Education**

Currently Epylon manages close relationships with over 1,500 suppliers nationwide. These suppliers vary widely in their experience and level of sophistication in using Internet-based technologies. To ensure that technology is not a barrier to supplier participation, the team will work with suppliers to increase their comfort with the system and increase their participation in the e-procurement initiative. The team will:

- Demonstrate the software and answer technical questions
- Provide tools, templates and procedures to suppliers for creating and updating their own online catalogs
- Offer supplier workshops to introduce tools and assist suppliers in creating and updating catalogs and reports
- Provide a self-directed course for using the software
- Support suppliers with job aids, help desk, and online help
- Create and manage online catalogs on behalf of suppliers with limited resources
- Register suppliers that are not Internet-enabled
- Send invoices and requests for quotes via mail or fax to suppliers that are not web-enabled

### **HUB Suppliers**

Our team will also develop a supplier outreach program designed to remove costs and technology barriers to entry to ensure women-owned businesses, minority-owned businesses and historically underutilized businesses (HUBs) have access to the e-procurement solution. Similar approaches can be used for small businesses and disadvantaged industries. For all suppliers, the team will offer up-front training and support. After the initial training and set up, suppliers will have access to the help desk for any system related issues. Additionally, every supplier will have a supplier account management representative to work with on an ongoing basis. Supplier participation is so critical to the success of the solution that considerable resources are devoted to ensuring supplier satisfaction.

## **TRAINING PLAN**

The successful implementation of e-procurement requires that North Carolina employees be able and willing to use the e-procurement software and perform new business processes and job functions. Because e-procurement software is intuitive and user-friendly, some users may not actually require formal training. The Training Plan defines when and how users will receive the e-procurement training they need and establishes additional mechanisms through which users can obtain point-of-need help after implementation. The E-Procurement Team will create a Training Plan that will support the training goals and objectives for implementing e-procurement. The Training Plan will address training for users of the e-procurement system only. Please refer to the Supplier Adoption Program for information about supplier education.

### **Training Goal and Objectives**

The overall goal of the Training Plan is to give e-procurement capability to North Carolina employees for day one success by building each user's business, procurement, and systems skills.

The overall objectives of the Training Plan are to:

- Utilize a network of sponsors to promote the training.
- Build critical, specific system application skills and process knowledge related to the user's role.
- Provide participants with hands-on opportunities to perform tasks using a realistic, online training environment.
- Minimize the amount of time users spend at training and away from their jobs.
- Deliver the right amount of training as close as possible to the time when users will need to employ their new skills on the job.
- Utilize trainers and functional experts as primary trainers for e-procurement. State trainers may be assisted as necessary by members of the E-Procurement Team, particularly in large agencies where significant numbers of employees may need to be trained.
- Identify and train "super-users" to serve as peer coaches when employees are practicing their new e-procurement skills back on the job after training.
- Provide on-the-job performance support such as help desk and job aids.

## E-Procurement Due Diligence

In order to achieve these objectives, the training strategy will be based on the following principles:

- **Function-focused** – Users will attend training specific to job role and required procurement processes. The training will focus on the tasks the users are expected to complete on the job.
- **Scenario-based** – The training will incorporate “real life” work scenarios and exercises in order to provide participants with relevant learning goals. This approach enables users to relate the skills they are learning to their actual day-to-day activities.
- **Performance-based** – Throughout training, users will have an opportunity to test the skills they have acquired by completing various activities and procurement scenarios.

### **Planning Phase**

During the planning phase, the E-Procurement Team will identify the training and documentation needs of the State users, define the curriculum, and provide a high-level description of the courses offered.

Team members will complete the following tasks:

- **Role Definition** – Team members will work closely with agencies, universities, community colleges, LEAs and local governments to define roles that will meet agency e-procurement needs. E-Procurement has the potential for having large impacts on present roles: some agencies, for example, may chose to elevate the role of requestor by giving requestors limited authority to purchase online. Some agencies may want Buyers to continue in their present role but spend more of their time negotiating contracts with suppliers. Other agencies may want buyers to take on approver roles. Agencies will be responsible for assigning personnel to these roles.
- **Identification of Number of Users** – Following role definition, the team will identify the number of users requiring e-procurement training for each agency, university, community college, LEA and local government. The team will also calculate the number of trainers the State will need to supply to meet the ongoing training needs for e-procurement.
- **Organizational Impact Analysis** – The potential changes in roles and the training required to meet those needs is addressed in the Organizational Impact Analysis. This analysis details who is responsible for performing tasks, how and to what extent e-procurement will impact them, and what kind of system modifications or process changes will be involved. The organizational impact analysis lays the groundwork for the training plan.
- **Audience Analysis** – Consists of identifying the characteristics of each audience group as well as their skills and abilities. The audience analysis is used to evaluate which type of training and training topics are most suitable for each audience.
- **Curriculum Plan** – Identifies and defines a curriculum of courses that will meet the users' training needs. We recognize that not all State users will be web-enabled prior to the

launch of the e-procurement program, and therefore some State employees may require basic computer and Internet skills training in addition to e-procurement training.

- Design and Development of Training – With input from agencies, vendors, software providers and the analyses from the planning phase, members of the E-Procurement Team will design and develop e-procurement user training as outlined in the Curriculum Plan. The Training Design will lay out the overall type of training that is most suitable for the users, considering cost, user characteristics and preferences, development time, and other factors. During training development, team members will create the training materials, getting feedback from agencies, users, vendors, and others.

### **Training Pilot**

A Training Pilot is the practice ground for testing the training. A training pilot uses a small number of typical users to determine if the training is effective. The results of the pilot will guide updates to the training before training is rolled out to the various agencies and other government entities on a large scale. The E-Procurement Team will provide training for up to 12 selected users during the training pilot. User manuals, step-by-step procedures, and job aids will be used to support the training.

### **Training Delivery**

Due to the large user population and aggressive time frame for rollout, the team will consider developing online self-directed training in addition to traditional classroom training. For any classroom-based, instructor-led training, it is assumed that the State will utilize a train-the-trainer approach.

### **Train-the-Trainer**

A train-the-trainer approach will be used to train users of the system, including requestors, purchasing professionals, supervisors, and the other purchasing-related roles that the State identifies. Developing the course by modules can allow for flexible training in that users take only the modules they need to perform their roles. In train-the-trainer:

- Users learn from subject matter experts who routinely use the system
- Contact with every user is maximized
- Expert knowledge is built in-house and is dispersed across the various agencies

Train-the-trainer can be implemented by having each government entity select an individual to coordinate the training and serve as point person for questions or issues related to the rollout of the e-procurement solution. On an ongoing basis, the State will then be able to deliver the training and maintain course materials and schedules.

### **Training Support Strategy**

A Training Support Strategy describes how ongoing performance support needs will be met once training is completed. E-Procurement Team members will develop the Training Support Strategy soon after training is designed. Having a performance support strategy will alleviate much of the potential stress on the users during implementation. Training support includes all methods and tools made available to users to support their job performance, such as job aids, Help Desk, Online Help and Peer Support.

- Job aids – quick reference guides that State employees can use after training to assist them in using the e-procurement software when back on the job.
- Help desk – resources who are dedicated to assisting e-procurement users by phone and e-mail. They answer user questions on an as-needed basis. Help Desk questions will be tracked and used to create lists of Frequently Asked Questions (FAQs) for State employees and as input for evaluating, updating and revising the training.
- Online help – the software provides users with user-friendly features to guide the user through the experience of requesting goods and services from State suppliers. Wizards walk the user through each step and provide additional information when needed.
- Peer support (Super-users) – a network of users who have expertise in using the e-procurement software and understand the procurement process and guidelines in the agency, university, community college, LEA or local government. The Super-users can offer assistance to those peers who are less familiar with the e-procurement system.

### **Training Agenda**

The solution is relatively easy to use by those who have basic computer skills and Internet browsing capability. We anticipate there should be less formal training required than for less intuitive programs. Training will address not only using the system, but also, using any new e-procurement processes and/or guidelines. The following Training Agenda provides an overview of the topics that might be covered. The Training Agenda will be finalized during the Initial Phase.

### **How to Requisition /Process Changes**

- Demonstration and overview of the solution
- Creating requisitions
  - Using searches
  - Using punchout
  - Viewing catalogs
- Other Topics
  - Receiving /Matching
- Charge-card reconciliation
- Creating custom reports
- Running delivered reports

### **Accounts Payable**

- Issue Vouchers
- Receiving Encumbrances

### **How to Approve / Process Changes**

- Workflow processing
  - Adding watchers
  - Approving requisitions
  - Viewing status
- Creating and awarding eQuotes and eBids

### **Supplier Training**

- Responding to quote requests
- Responding to purchase orders
- Accepting change orders

The E-Procurement Team will work with the State to ensure that the right people are being trained, at the right time, on the right business processes. While the agenda above gives an overview of the training offered, our user adoption tasks will identify and develop more comprehensive and complete training needs. The training approach will provide for flexible training to a variety of users, including specialized training sessions on quoting and bidding and other functionality.



## **COMMUNICATION PLAN**

### **Description**

Communication will be a critical success factor for the E-Procurement Initiative. As part of the North Carolina E-Procurement Initiative, we will have dedicated resources managing the communication effort. We will work with key personnel at the State so that the Communication Plan continues to evolve and serve the needs of North Carolina. The Communication Plan for e-procurement will be integrated with the *NC @ Your Service* Communication Plan and designed to exploit existing channels of communication, foster commitment to the E-Procurement Initiative, and allow for two-way communications among members of the team, the E-Procurement Advisory Committee, IRMC, MIC, ITMAC, and Joint Select Committee; P&C, OSC, ITS and Office of the State Auditor; employees at agencies, universities, community colleges, LEAs, and local governments; suppliers; the software provider; and other interested parties.

### **Communication Plan Goals**

The goals of the e-procurement communication plan are to:

1. Promote collaboration among State agencies, suppliers, and other stakeholders in the E-Procurement Initiative
2. Create buy-in and support for e-procurement
3. Disseminate and leverage e-procurement best practices throughout the state
4. Obtain ongoing feedback to improve the system and process
5. Inform stakeholders of requirements, key decisions, milestones, successes, failures and other news

### **Communication Matrix**

The following communication matrix outlines a high level plan for e-procurement communications. The matrix is used to plan how targeted stakeholders will receive information and give feedback to the E-Procurement Project Team. The matrix is composed of several columns:

- “Audience” indicates the name of the targeted stakeholder group;
- “Internal”, “Government” or “Public” identifies the type of audience;
- “Channel” denotes the communication vehicle;
- “Key Message” identifies the topic;
- “Frequency” states how often the communication is planned; and
- “Feedback Mechanism” indicates a method for the audience to respond to the communication.

The Communication Matrix acknowledges the varying number and types of communication required for the different audiences involved with the E-Procurement Initiative. Audiences that are more critical to the success of the initiative will receive more frequent, “higher touch”, two-way communication such as meetings and focus groups. Other stakeholder groups that need to know about e-procurement but are less involved will receive less frequent low-touch communications such as newsletters and e-mails.

**E-Procurement Communication Matrix**

| <b>Audience</b>         | <b>Internal</b> | <b>Govt.</b> | <b>Public</b> | <b>Channel</b>                | <b>Key Message</b>                          | <b>Frequency</b> | <b>Feedback Mechanism</b> |
|-------------------------|-----------------|--------------|---------------|-------------------------------|---------------------------------------------|------------------|---------------------------|
| Project Team            | X               |              |               | Push technology e-mail        | Status, news, requirements of e-procurement | As needed        | E-mail                    |
|                         |                 |              |               | Team meetings                 | Work planning, staffing                     | Weekly           | Questions and answers     |
|                         |                 |              |               | Press release or news article | e-Procurement news or release               | As needed        | E-mail                    |
|                         |                 |              |               | Calendar                      | Meetings and events                         | Continuous       | E-mail                    |
| P&C, ITS, OSC           | X               |              |               | Push technology e-mail        | Status, news, requirements of e-procurement | As needed        | E-mail                    |
|                         |                 |              |               | Online newsletter             | Status of e-procurement, milestones         | 6x/year          | E-mail                    |
|                         |                 |              |               | Press release or news article | e-Procurement news or release               | As needed        | E-mail                    |
|                         |                 |              |               | Calendar                      | Meetings and events                         | Continuous       | E-mail                    |
| Office of State Auditor | X               |              |               | Push technology e-mail        | Status, news, requirements of e-procurement | As needed        | E-mail                    |
|                         |                 |              |               | Online newsletter             | Status of e-procurement, milestones         | 6x/year          | E-mail                    |
|                         |                 |              |               | Press release or news article | E-Procurement news or release               | As needed        | E-mail                    |
|                         |                 |              |               | Calendar                      | Meetings and events                         | Continuous       | E-mail                    |

| <b>Audience</b>                                                                     | <b>Internal</b> | <b>Govt.</b> | <b>Public</b> | <b>Channel</b>                                            | <b>Key Message</b>                                              | <b>Frequency</b>           | <b>Feedback Mechanism</b> |
|-------------------------------------------------------------------------------------|-----------------|--------------|---------------|-----------------------------------------------------------|-----------------------------------------------------------------|----------------------------|---------------------------|
| State Employee                                                                      |                 | X            |               | Push technology e-mail                                    | Status, news, requirements of e-procurement                     | As needed                  | E-mail                    |
|                                                                                     |                 |              |               | Online newsletter                                         | Status of e-procurement, milestones                             | 6x/year                    | E-mail                    |
|                                                                                     |                 |              |               | NC at Your Service Portal                                 | Status of e-procurement, milestones                             | Continuous                 | E-mail                    |
|                                                                                     |                 |              |               | OSP communications                                        | Benefits of using e-procurement, key features                   | Targeted new hire training | Questions and answers     |
|                                                                                     |                 |              |               | Agency-specific                                           | Agency-specific (ie. Job-aid)                                   | On-going                   | E-mail                    |
|                                                                                     |                 |              |               | Press release or news article                             | e-procurement news or release                                   | As needed                  | E-mail                    |
|                                                                                     |                 |              |               | Speaker's bureau presentation or demonstration at meeting | Introduction to e-procurement and project                       | 1x/year                    | E-mail                    |
| Committees – E-Procurement Advisory, IRMC, MIC, ITMAC, Joint Select Committee on IT |                 | X            |               | Push technology e-mail                                    | News                                                            | As needed                  | E-mail                    |
|                                                                                     |                 |              |               | Presentation or demonstration at meeting                  | e-procurement demonstration or e-procurement and project update | Monthly                    | Questions and answers     |
|                                                                                     |                 |              |               | Press release or news article                             | e-procurement news or release                                   | As needed                  | E-mail                    |

# E-Procurement Due Diligence

| <b>Audience</b>                                                               | <b>Internal</b> | <b>Govt.</b> | <b>Public</b> | <b>Channel</b>                                    | <b>Key Message</b>                        | <b>Frequency</b> | <b>Feedback Mechanism</b> |
|-------------------------------------------------------------------------------|-----------------|--------------|---------------|---------------------------------------------------|-------------------------------------------|------------------|---------------------------|
| State Agencies, Universities, Community Colleges, Local Education Authorities |                 | X            |               | Push technology e-mail                            | Status, news                              | As needed        | E-mail                    |
|                                                                               |                 |              |               | Meetings                                          | Update on status, implementation schedule | As needed        | Questions and Answers     |
|                                                                               |                 |              |               | Focus Groups                                      | e-procurement specific topics             | Planning Phase   | Questions and Answers     |
|                                                                               |                 |              |               | NC at Your Service Portal/Project Office Web Site | e-procurement status and project news     | Continuous       | E-mail                    |
|                                                                               |                 |              |               | Press release or news article                     | e-procurement news or release             | As needed        | E-mail                    |
| Local Governments                                                             |                 | X            |               | Push technology e-mail                            | Status, news                              | As needed        | E-mail                    |
|                                                                               |                 |              |               | Meetings                                          | Update on status, implementation schedule | As needed        | Questions and Answers     |
|                                                                               |                 |              |               | Focus Groups                                      | e-procurement specific topics             | As needed        | Questions and Answers     |
|                                                                               |                 |              |               | NC at Your Service Portal/Project Office Web Site | e-procurement status and project news     | Continuous       | E-mail                    |
|                                                                               |                 |              |               | Press release or news article                     | e-procurement news or release             | As needed        | E-mail                    |
| Legislators                                                                   |                 | X            |               | Push technology e-mail                            | Status, news                              | As needed        | E-mail                    |

| <b>Audience</b> | <b>Internal</b> | <b>Govt.</b> | <b>Public</b> | <b>Channel</b>                                    | <b>Key Message</b>                                                                                       | <b>Frequency</b> | <b>Feedback Mechanism</b> |
|-----------------|-----------------|--------------|---------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------|---------------------------|
|                 |                 |              |               | Letter                                            | From legislative leadership asking for support in reviewing e-procurement legislation                    | 1x/yr            | E-mail                    |
|                 |                 |              |               | Meeting with legislative leadership               | e-procurement update and status                                                                          | As needed        | Questions and answers     |
| Citizens        |                 |              | X             | Press release or news article                     | e-procurement news or release                                                                            | As needed        | E-mail                    |
| Suppliers       |                 |              | X             | Focus Groups                                      | e-procurement requirements and progress                                                                  | Planning Phase   | Questions and answers     |
|                 |                 |              |               | Mass Mailing                                      | Advertise e-procurement                                                                                  | 1x/month         | E-mail                    |
|                 |                 |              |               | Sales Presentation                                | Educate about e-procurement; Establish and maintain relationship, contract for supplier transaction fees | 2x/week          | Personal contact          |
|                 |                 |              |               | Push technology e-mail                            | Advertise and educate e-procurement                                                                      | As needed        | E-mail                    |
|                 |                 |              |               | NC at Your Service Portal/Project Office Web Site | News, update, status                                                                                     | Continuous       | E-mail                    |
| Media           |                 |              | X             | Media Kit                                         | Fact sheets and e-procurement contacts                                                                   | As needed        | Phone number              |

## E-Procurement Due Diligence

| <b>Audience</b> | <b>Internal</b> | <b>Govt.</b> | <b>Public</b> | <b>Channel</b>                                      | <b>Key Message</b> | <b>Frequency</b> | <b>Feedback Mechanism</b> |
|-----------------|-----------------|--------------|---------------|-----------------------------------------------------|--------------------|------------------|---------------------------|
|                 |                 |              |               | Press release or news article                       | e-procurement news | As needed        | E-mail                    |
|                 |                 |              |               | Media Tour Event (in conjunction with portal tours) | e-procurement news | 15x/yr           | Questions and answers     |

## **FUNDING MODEL OVERVIEW**

North Carolina's E-Procurement solution is provided through a public/private partnership utilizing a self-funding business model which requires no cash investment by the State. Key tenets of the funding model include:

- The solution will be self funded, generating revenue through supplier fees
- No cash outlay will be required by the State if the benchmarks are met
- The infrastructure investment will be provided by Accenture
- Cost recovery will occur over the life of the contract with long-term revenue gain sharing for all participants

### **Financial Structure**

The service will be run as a business with shared cost and revenue. Cost recovery will occur over the life of the contract through revenue generated by supplier fees. The State and Accenture will both engage in long-term revenue sharing, once costs are recouped. Any excess revenue will be distributed to the individual buying entities proportionally to the amount of spending that they put through the system. For state agencies, revenue sharing will be distributed to non-reverting agency funds to assist in implementing e-government services for citizens and businesses.

At the outset of the project, the State and Accenture will agree on a planned level of annual revenue in addition to terms regarding cost recovery and revenue sharing. Both parties will share the risk of revenue shortfall below the planned level. If revenue exceeds the estimated spend, this excess revenue will be shared between the State and Accenture according to a formula that increases the State's share as the excess increases. An Operating Committee will oversee the operation of the e-procurement solution. This committee will direct all aspects of the project, ranging from day-to-day operations to long-term revenue goal achievement.

The supplier fees will be specific to individual purchase orders, charging suppliers an established percentage of purchase order value. This revenue structure will provide sufficient revenue to support the cost of operations and potentially provide for additional revenue to be shared by all participating buying entities.

### **Review of Similar Public Sector Initiatives**

As part of the due diligence effort, research was conducted on other similar public sector initiatives to analyze approaches, funding models, lessons learned, and other significant information. North Carolina's approach is congruent with other similar initiatives throughout the country.

## **FUNDING MODEL PRINCIPLES**

The Funding Model Principles are listed below:

1. The model should be simple (cheaper to administer, easier to sell to suppliers)
2. A Supplier Fee is justified if it provides value
3. Promote efficiency in process and consistent buyer behavior
4. Integration is necessary to prevent loss of current functionality
5. Promote equal participation by all suppliers
6. Promote participation of all entities (NCAS, DOT, Universities, Community Colleges, LEA, Local and County Government)
7. The State should be able to exercise control over catalogs (particularly price)



## **IMPLEMENTATION PLAN OVERVIEW**

We have developed an implementation approach with two basic areas: central tasks and agency roll out tasks. Each of these areas is described below and additional resource estimates can be found in the E-Procurement Detailed Workplans.

### **Central Tasks**

Central Tasks are those tasks that are either performed on a one-time basis (e.g. project team organization), or tasks that apply to all agencies (e.g. hardware and software set up, training material development). There are five major central tasks:

- Project Organization
- Technical infrastructure (includes hardware and software set up, environment set ups, and ongoing technical support)
- Supplier Recruitment and Management (includes supplier marketing, recruitment, catalog loading assistance, catalog maintenance assistance)
- Training Materials Development (includes developing a training plan, needs assessment and modifying/developing training materials)
- Project Management (includes all project management activities to manage system implementation, reporting to the Operating Committee and IRMC, etc.)

### **Agency-specific Tasks**

The NC E-Procurement System will include users from central government agencies (NCAS agencies), the NC Dept. of Transportation, State Universities, Community Colleges, Local Education Authorities (LEAs), and local governments (cities, counties and municipalities). The rollout of the system to each of these government entities will be somewhat repetitive, so we have organized the implementation plan as follows:

- Business Process & Workflow Design (includes identifying unique workflows for each of the government entities, identifying any necessary modifications, etc.)
- Software Configuration and Integration (includes programming and system testing, integration to ERP system, establishing chart of accounts, system security, workflow/approval levels, defining users and permission levels, etc.)
- Production System Readiness (includes tasks to have the necessary hardware and software for each particular entity as they come to production)
- User Adoption (includes delivery of training for each government entity)

## E-Procurement Due Diligence

- Parameter Loading and Conversion (includes loading any parameters or necessary conversion to get the system going (e.g. vendor conversion))

We have grouped the agencies, which will use the system into logical groupings:

Group 1 - Central government agencies (NCAS agencies)

Group 2 - State Universities

Group 3 - Community Colleges

Group 4 - LEAs (Local Education Authorities)

Group 5 - NC Dept. of Transportation

Group 6 - Local Governments (cities/towns, counties and municipalities)

Integration – As requested by the State, our estimates assume the following level of integration between the e-procurement solution and the specific agency's ERP package (e.g. NCAS).

Group 1 - Central government agencies (NCAS agencies) – fully integrated to NCAS

Group 2 - State Universities – One university integrated

Group 3 - Community Colleges – One Community College integrated

Group 4 - LEAs (Local Education Authorities) – One LEA integrated

Group 5 - NC Dept. of Transportation – Integration to new ERP system

Group 6 - Local Governments (cities/towns, counties and municipalities – No integration)

The feasibility of additional integration will be analyzed as part of future rollouts of the E-Procurement solution and are not included in these estimates.

The success of a statewide E-Procurement solution depends greatly upon the support it receives from the end users and the supplier community. As a result, we have significant resources allocated to both the supplier and user adoption programs (training and user outreach).

## Implementation Plan

The following pages contain the implementation plan for the North Carolina e-procurement system. The workplan will be finalized based on the final length of the contract and other options that the state chooses to implement. Also included is an estimate of the involvement of state resources. These are subject to confirmation.

- Summary Implementation Plan
- Implementation Work Plan – Agency Involvement

# Summary E-Procurement Workplan

|                                             |                                            | Day Range     |                  |
|---------------------------------------------|--------------------------------------------|---------------|------------------|
| <b>Central Tasks</b>                        |                                            |               |                  |
| 1                                           | Project Organization                       | 90            | to 90            |
| 2                                           | Technical Infrastructure                   | 1,069         | to 1,996         |
| 3                                           | Accounts Payable Implementation            | 1,000         | to 1,000         |
| 4                                           | Supplier Recruitment and Management        | 4,535         | to 4,884         |
| 5                                           | Training Development                       | 756           | to 940           |
| 12                                          | Project Management                         | 1,791         | to 3,144         |
| <b>Central Tasks Total</b>                  |                                            | <b>9,241</b>  | <b>to 12,054</b> |
| <b>Group 1 - NCAS</b>                       |                                            |               |                  |
| 6.1                                         | Business Processes & Work Flow             | 131           | to 131           |
| 6.2a                                        | Configure software including modifications | 511           | to 711           |
| 6.2b                                        | Integrate eP to NCAS                       | 1,257         | to 1,957         |
| 6.3                                         | Production System Readiness                | 172           | to 172           |
| 6.4                                         | User Adoption                              | 317           | to 643           |
| 6.5                                         | Parameter Loading/Conversion               | 127           | to 127           |
| <b>Group 1 - NCAS - Total</b>               |                                            | <b>2,515</b>  | <b>to 3,741</b>  |
| <b>Group 2 - University</b>                 |                                            |               |                  |
| 7.1                                         | Business Processes & Work Flow             | 36            | to 36            |
| 7.2                                         | Software Install & Configure               | 1,117         | to 1,117         |
| 7.3                                         | Production System Readiness                | 40            | to 60            |
| 7.4                                         | User Adoption                              | 117           | to 210           |
| 7.5                                         | Parameter Loading/Conversion               | 100           | to 121           |
| <b>Group 2 - University - Total</b>         |                                            | <b>1,410</b>  | <b>to 1,543</b>  |
| <b>Group 3 - Community Colleges</b>         |                                            |               |                  |
| 8.1                                         | Business Processes & Work Flow             | 36            | to 36            |
| 8.2                                         | Software Install & Configure               | 966           | to 1,166         |
| 8.3                                         | Production System Readiness                | 40            | to 60            |
| 8.4                                         | User Adoption                              | 213           | to 278           |
| 8.5                                         | Parameter Loading/Conversion               | 159           | to 159           |
| <b>Group 3 - Community Colleges - Total</b> |                                            | <b>1,414</b>  | <b>to 1,698</b>  |
| <b>Group 4 - LEAs</b>                       |                                            |               |                  |
| 9.1                                         | Business Processes & Work Flow             | 32            | to 35            |
| 9.2                                         | Software Install & Configure               | 1,004         | to 2,316         |
| 9.3                                         | Production System Readiness                | 40            | to 60            |
| 9.4                                         | User Adoption                              | 233           | to 274           |
| 9.5                                         | Parameter Loading/Conversion               | 312           | to 347           |
| <b>Group 4 - LEAs - Total</b>               |                                            | <b>1,621</b>  | <b>to 3,031</b>  |
| <b>Group 5 - DOT</b>                        |                                            |               |                  |
| 10.1                                        | Business Processes & Work Flow             | 62            | to 62            |
| 10.2                                        | Software Install & Configure               | 1,099         | to 1,099         |
| 10.3                                        | Production System Readiness                | 40            | to 60            |
| 10.4                                        | User Adoption                              | 197           | to 225           |
| 10.5                                        | Parameter Loading/Conversion               | 121           | to 121           |
| <b>Group 5 - DOT - Total</b>                |                                            | <b>1,519</b>  | <b>to 1,567</b>  |
| <b>Group 6 - Local Governments</b>          |                                            |               |                  |
| 11.1                                        | Business Processes & Work Flow             | 25            | to 35            |
| 11.2                                        | Software Install & Configure               | 612           | to 875           |
| 11.3                                        | Production System Readiness                | 40            | to 50            |
| 11.4                                        | User Adoption                              | 332           | to 535           |
| 11.5                                        | Parameter Loading/Conversion               | 139           | to 199           |
| <b>Group 6 - Local Govt - Total</b>         |                                            | <b>1,148</b>  | <b>to 1,694</b>  |
| <b>Total Days</b>                           |                                            | <b>18,868</b> | <b>to 25,327</b> |

**E-Procurement Project  
Detailed Workplan  
Agency Involvement**

| Project Workplan |                       |         | Client Involvement Year 1 (Days) |     |           |                | Client Involvement Ongoing Yrs. (Days) |     |           |                |
|------------------|-----------------------|---------|----------------------------------|-----|-----------|----------------|----------------------------------------|-----|-----------|----------------|
|                  |                       |         | DOA/P&C                          | OSC | ITS / IRM | Other Agencies | DOA/P&C                                | OSC | ITS / IRM | Other Agencies |
| Ref.             | Segment/Task/Sub-task | Factors |                                  |     |           |                |                                        |     |           |                |

|                      |                                                         |        |             |            |            |          |            |          |           |          |
|----------------------|---------------------------------------------------------|--------|-------------|------------|------------|----------|------------|----------|-----------|----------|
| <b>CENTRAL TASKS</b> |                                                         |        |             |            |            |          |            |          |           |          |
| <b>1</b>             | <b>Project Organization</b>                             |        | <b>15</b>   | <b>15</b>  | <b>15</b>  | <b>0</b> | <b>0</b>   | <b>0</b> | <b>0</b>  | <b>0</b> |
| 1.1                  | Organize Team                                           |        |             |            |            |          |            |          |           |          |
| 1.1.1                | Obtain project work area                                | People | 5           | 5          | 5          | 0        | 0          | 0        | 0         | 0        |
| 1.1.2                | Establish project team                                  | Days   | 3           | 3          | 3          | 0        | 0          | 0        | 0         | 0        |
| 1.1.3                | Hold kick-off meeting                                   | Months | 1           | 1          | 1          | 0        | 0          | 0        | 0         | 0        |
| 1.1.4                | Conduct project orientation                             |        |             |            |            |          |            |          |           |          |
| 1.2                  | Confirm Scope and Approach                              |        |             |            |            |          |            |          |           |          |
| 1.2.1                | Review deployment schedule                              |        |             |            |            |          |            |          |           |          |
| 1.2.2                | Confirm workplan and schedule                           |        |             |            |            |          |            |          |           |          |
| <b>2</b>             | <b>Technical Infrastructure</b>                         |        | <b>0</b>    | <b>10</b>  | <b>40</b>  | <b>0</b> | <b>0</b>   | <b>0</b> | <b>30</b> | <b>0</b> |
| 2.1                  | Design development, training, & test environments       |        |             |            |            |          |            |          |           |          |
| 2.1.1                | Identify hardware/software requirements                 | People | 0           | 1          | 2          | 0        | 0          | 0        | 0.5       | 0        |
| 2.1.2                | Identify network requirements                           | Days   | 0           | 10         | 20         | 0        | 0          | 0        | 5         | 0        |
| 2.1.3                | Identify desktop requirements                           | Months | 0           | 1          | 1          | 0        | 0          | 0        | 12        | 0        |
| 2.1.4                | Procure necessary infrastructure                        |        |             |            |            |          |            |          |           |          |
| 2.2                  | Build development, training, & test environments        |        |             |            |            |          |            |          |           |          |
| 2.2.1                | Install/configure infrastructure                        |        |             |            |            |          |            |          |           |          |
| 2.2.2                | Install/configure hardware                              |        |             |            |            |          |            |          |           |          |
| 2.2.3                | Install/configure system software                       |        |             |            |            |          |            |          |           |          |
| 2.2.4                | Install/configure application software                  |        |             |            |            |          |            |          |           |          |
| 2.2.5                | Establish market connectivity                           |        |             |            |            |          |            |          |           |          |
| 2.2.6                | Define and implement development env support plan       |        |             |            |            |          |            |          |           |          |
| 2.2.7                | Conduct Technology Readiness Assessment                 |        |             |            |            |          |            |          |           |          |
| 2.3                  | Build software instances for dev, training, & test envs |        |             |            |            |          |            |          |           |          |
| 2.4                  | Ongoing Support of Technical Environments               |        |             |            |            |          |            |          |           |          |
| 2.5                  | Support Training Environment                            |        |             |            |            |          |            |          |           |          |
| 2.5.1                | Establish Refresh Procedures and Approach               |        |             |            |            |          |            |          |           |          |
| 2.5.2                | Test and Confirm Refresh Procedures                     |        |             |            |            |          |            |          |           |          |
| 2.5.3                | Support Refreshes During Training Sessions              |        |             |            |            |          |            |          |           |          |
| <b>3</b>             | <b>Accounts Payable Implementation</b>                  |        |             | <b>500</b> |            |          | <b>0</b>   | <b>0</b> | <b>0</b>  | <b>0</b> |
| <b>4</b>             | <b>Supplier Recruitment and Management</b>              |        | <b>490</b>  | <b>120</b> | <b>180</b> | <b>0</b> | <b>120</b> | <b>0</b> | <b>60</b> | <b>0</b> |
| 4.1                  | Develop Supplier Adoption Strategy                      |        |             |            |            |          |            |          |           |          |
| 4.1.1                | Develop and document term contract strategy             | People | 3 + 1.5 + 1 | 0.5        | 0.75       | 0        | 0.5        | 0        | 0.25      | 0        |
| 4.1.2                | Develop and document spot buy strategy                  | Days   | 20          | 20         | 20         | 0        | 20         | 0        | 20        | 0        |
| 4.1.3                | Define and document content management policy           | Months | 5 + 5 + 2   | 12         | 12         | 0        | 12         | 0        | 12        | 0        |
| 4.1.4                | Define key performance metrics                          |        |             |            |            |          |            |          |           |          |
| 4.1.5                | Define HUB Strategy                                     |        |             |            |            |          |            |          |           |          |
| 4.1.6                | Conduct Supplier Focus Group sessions                   |        |             |            |            |          |            |          |           |          |
| 4.1.7                | Discuss with state team and receive approval            |        |             |            |            |          |            |          |           |          |
| 4.2                  | Identify term contracts for initial phases              |        |             |            |            |          |            |          |           |          |
| 4.2.1                | Review spend data by supplier                           |        |             |            |            |          |            |          |           |          |
| 4.2.2                | Develop selection criteria, analyze data                |        |             |            |            |          |            |          |           |          |
| 4.2.3                | Discuss analysis results with state team                |        |             |            |            |          |            |          |           |          |
| 4.3                  | Conduct supplier outreach                               |        |             |            |            |          |            |          |           |          |
| 4.3.1                | Develop supplier adoption schedule                      |        |             |            |            |          |            |          |           |          |
| 4.3.2                | Develop presentation materials                          |        |             |            |            |          |            |          |           |          |
| 4.3.3                | Meet with suppliers                                     |        |             |            |            |          |            |          |           |          |
| 4.3.4                | Secure commitment to participate, set expectations      |        |             |            |            |          |            |          |           |          |
| 4.4                  | Supplier Registration                                   |        |             |            |            |          |            |          |           |          |
| 4.4.1                | Supplier Registration and Activation - Epylon           |        |             |            |            |          |            |          |           |          |
| 4.4.2                | Supplier Registration and Activation - Ariba            |        |             |            |            |          |            |          |           |          |
| 4.5                  | Define Supplier Purchase Order Process                  |        |             |            |            |          |            |          |           |          |
| 4.5.1                | Manage Ariba Account Preferences                        |        |             |            |            |          |            |          |           |          |
| 4.5.2                | Identify and Train Supplier PO processors               |        |             |            |            |          |            |          |           |          |
| 4.5.3                | Define PO process for Ariba (FAX/EDI/CXML)              |        |             |            |            |          |            |          |           |          |
| 4.5.4                | Document Exception and Issue Resolution Process         |        |             |            |            |          |            |          |           |          |
| 4.5.5                | Perform Ariba Training for Purchase Order Process       |        |             |            |            |          |            |          |           |          |
| 4.5.6                | Test Purchase Order Process with Supplier               |        |             |            |            |          |            |          |           |          |
| 4.5.7                | Support Supplier Business Rule Changes                  |        |             |            |            |          |            |          |           |          |

**E-Procurement Project  
Detailed Workplan  
Agency Involvement**

| Project Workplan |                                                       |         | Client Involvement Year 1 (Days) |            |           |                | Client Involvement Ongoing Yrs. (Days) |           |           |                |
|------------------|-------------------------------------------------------|---------|----------------------------------|------------|-----------|----------------|----------------------------------------|-----------|-----------|----------------|
|                  |                                                       |         | DOA/P&C                          | OSC        | ITS / IRM | Other Agencies | DOA/P&C                                | OSC       | ITS / IRM | Other Agencies |
| Ref.             | Segment/Task/Sub-task                                 | Factors |                                  |            |           |                |                                        |           |           |                |
| 4.6              | Catalog and Contract Facilitation                     |         |                                  |            |           |                |                                        |           |           |                |
| 4.6.1            | Send Catalog and Contract Specification Document      |         |                                  |            |           |                |                                        |           |           |                |
| 4.6.2            | Work with Supplier to Format Data                     |         |                                  |            |           |                |                                        |           |           |                |
| 4.6.3            | Receive Catalog and Contract Line Items from Supplier |         |                                  |            |           |                |                                        |           |           |                |
| 4.6.4            | Qualify the Data                                      |         |                                  |            |           |                |                                        |           |           |                |
| 4.6.5            | Approve Data and Transfer to Supplier Integration     |         |                                  |            |           |                |                                        |           |           |                |
| 4.7              | Load and Classify Contract/Catalog Data               |         |                                  |            |           |                |                                        |           |           |                |
| 4.7.1            | Load and Classify Contract/Catalog Data - Easy        |         |                                  |            |           |                |                                        |           |           |                |
| 4.7.2            | Load and Classify Contract/Catalog Data - Medium      |         |                                  |            |           |                |                                        |           |           |                |
| 4.7.3            | Load and Classify Contract/Catalog Data - High        |         |                                  |            |           |                |                                        |           |           |                |
| 4.8              | Account Development and Maintenance                   |         |                                  |            |           |                |                                        |           |           |                |
| 4.8.1            | Customize Reports to Monitor NC transactions          |         |                                  |            |           |                |                                        |           |           |                |
| 4.8.2            | Monitor and Facilitate Supplier Transactions          |         |                                  |            |           |                |                                        |           |           |                |
| 4.8.3            | Research and Resolve Issues                           |         |                                  |            |           |                |                                        |           |           |                |
| 4.8.4            | Provide Supplier Transaction Reporting                |         |                                  |            |           |                |                                        |           |           |                |
| 4.8.5            | Support Supplier Training Efforts                     |         |                                  |            |           |                |                                        |           |           |                |
| 4.8.6            | Train Additional Suppliers                            |         |                                  |            |           |                |                                        |           |           |                |
| 4.8.7            | Facilitate Contract/Catalog Line Item Updates         |         |                                  |            |           |                |                                        |           |           |                |
| <b>5</b>         | <b>User Training Development</b>                      |         | <b>20</b>                        | <b>80</b>  | <b>20</b> | <b>0</b>       | <b>0</b>                               | <b>0</b>  | <b>0</b>  | <b>0</b>       |
|                  | Adapt Existing Training Materials                     |         |                                  |            |           |                |                                        |           |           |                |
|                  | Determine Updates Required Based on Role Impact       | People  | 0.25                             | 1          | 0.25      | 0              | 0                                      | 0         | 0         | 0              |
|                  | Create Business Scenarios for each Agency Group       | Days    | 20                               | 20         | 20        | 0              | 0                                      | 0         | 0         | 0              |
|                  | Modify Materials Based on Business Scenarios          | Months  | 4                                | 4          | 4         | 0              | 0                                      | 0         | 0         | 0              |
|                  | Conduct Live Review of Materials                      |         |                                  |            |           |                |                                        |           |           |                |
|                  | Customer Service Readiness                            |         |                                  |            |           |                |                                        |           |           |                |
|                  | Identify Resource Desk Contact                        |         |                                  |            |           |                |                                        |           |           |                |
|                  | Review Current Support Processes and Organization     |         |                                  |            |           |                |                                        |           |           |                |
|                  | Technical Environment Assessment                      |         |                                  |            |           |                |                                        |           |           |                |
|                  | Develop Escalation Process                            |         |                                  |            |           |                |                                        |           |           |                |
|                  | Tailor Customer Support Process                       |         |                                  |            |           |                |                                        |           |           |                |
|                  | Document Implementation from a Service Perspective    |         |                                  |            |           |                |                                        |           |           |                |
| <b>6</b>         | <b>GROUP 1 - NCAS AGENCIES</b>                        |         |                                  |            |           |                |                                        |           |           |                |
| <b>6.1</b>       | <b>Business Processes &amp; Work Flow</b>             |         | <b>60</b>                        | <b>180</b> | <b>15</b> | <b>0</b>       | <b>30</b>                              | <b>30</b> | <b>30</b> | <b>0</b>       |
|                  | Assess Current Processes                              |         |                                  |            |           |                |                                        |           |           |                |
|                  | Review affected business processes                    | People  | 1                                | 3          | 0.25      | 0              | 0.125                                  | 0.125     | 0.125     | 0              |
|                  | Analyze procurement roles and responsibilities        | Days    | 20                               | 20         | 20        | 0              | 20                                     | 20        | 20        | 0              |
|                  | Document integration considerations                   | Months  | 3                                | 3          | 3         | 0              | 12                                     | 12        | 12        | 0              |
|                  | Review Best Practices/Process Templates               |         |                                  |            |           |                |                                        |           |           |                |
|                  | Review End-to-End Process Model Scenarios             |         |                                  |            |           |                |                                        |           |           |                |
|                  | Map commodities to target scenarios                   |         |                                  |            |           |                |                                        |           |           |                |
|                  | Review eProcurement marketplace capabilities          |         |                                  |            |           |                |                                        |           |           |                |
|                  | Review Evaluate Receipts Settlement process           |         |                                  |            |           |                |                                        |           |           |                |
|                  | Define Process Characteristics by Organization        |         |                                  |            |           |                |                                        |           |           |                |
|                  | Requisition creation                                  |         |                                  |            |           |                |                                        |           |           |                |
|                  | Workflow Approvals (roles,rules,routing)              |         |                                  |            |           |                |                                        |           |           |                |
|                  | Sourcing                                              |         |                                  |            |           |                |                                        |           |           |                |
|                  | Receiving                                             |         |                                  |            |           |                |                                        |           |           |                |
|                  | Matching                                              |         |                                  |            |           |                |                                        |           |           |                |
|                  | Invoice handling                                      |         |                                  |            |           |                |                                        |           |           |                |
|                  | P-Cards                                               |         |                                  |            |           |                |                                        |           |           |                |
|                  | Define User and Configuration Management Process      |         |                                  |            |           |                |                                        |           |           |                |
|                  | Business rule management                              |         |                                  |            |           |                |                                        |           |           |                |
|                  | User & workflow configuration                         |         |                                  |            |           |                |                                        |           |           |                |
|                  | Catalog maintenance                                   |         |                                  |            |           |                |                                        |           |           |                |
|                  | Design To-Be Processes                                |         |                                  |            |           |                |                                        |           |           |                |
|                  | Evaluation Receipt Processes                          |         |                                  |            |           |                |                                        |           |           |                |
|                  | Document Procurement Process by Commodity             |         |                                  |            |           |                |                                        |           |           |                |
|                  | Process flow                                          |         |                                  |            |           |                |                                        |           |           |                |
|                  | Controls                                              |         |                                  |            |           |                |                                        |           |           |                |
|                  | Business Document Flow                                |         |                                  |            |           |                |                                        |           |           |                |
| <b>6.2</b>       | <b>Software Install &amp; Configure</b>               |         | <b>90</b>                        | <b>120</b> | <b>15</b> | <b>0</b>       | <b>30</b>                              | <b>60</b> | <b>30</b> | <b>0</b>       |
|                  | Design Software Modifications (reports/workflow)      |         |                                  |            |           |                |                                        |           |           |                |
|                  | Design Interfaces                                     | People  | 1.5                              | 2          | 0.25      | 0              | 0.125                                  | 0.25      | 0.125     | 0              |

**E-Procurement Project  
Detailed Workplan  
Agency Involvement**

| Project Workplan |                                                                      |            | Client Involvement Year 1 (Days) |            |           |                | Client Involvement Ongoing Yrs. (Days) |            |           |                |
|------------------|----------------------------------------------------------------------|------------|----------------------------------|------------|-----------|----------------|----------------------------------------|------------|-----------|----------------|
|                  |                                                                      |            | DOA/P&C                          | OSC        | ITS / IRM | Other Agencies | DOA/P&C                                | OSC        | ITS / IRM | Other Agencies |
| Ref.             | Segment/Task/Sub-task                                                | Factors    |                                  |            |           |                |                                        |            |           |                |
|                  | Build and Unit Test Software Modifications                           | Days       | 20                               | 20         | 20        | 0              | 20                                     | 20         | 20        | 0              |
|                  | Build and Unit Test Interfaces                                       | Months     | 3                                | 3          | 3         | 0              | 12                                     | 12         | 12        | 0              |
|                  | Configure eProcurement Software                                      |            |                                  |            |           |                |                                        |            |           |                |
|                  | Configure permissions (security)                                     | VendorLink |                                  |            |           |                |                                        |            |           |                |
|                  | Configure Chart of Accounts                                          | IPTs       |                                  |            |           |                |                                        |            |           |                |
|                  | Configure Org Information                                            |            |                                  |            |           |                |                                        |            |           |                |
|                  | Establish workflow approval paths                                    |            |                                  |            |           |                |                                        |            |           |                |
|                  | Configure P-Card function                                            |            |                                  |            |           |                |                                        |            |           |                |
|                  | Conduct System Test                                                  |            |                                  |            |           |                |                                        |            |           |                |
|                  | System Test Planning                                                 |            |                                  |            |           |                |                                        |            |           |                |
|                  | System Test                                                          |            |                                  |            |           |                |                                        |            |           |                |
| <b>6.3</b>       | <b>Production System Readiness</b>                                   |            | <b>0</b>                         | <b>5</b>   | <b>0</b>  | <b>0</b>       | <b>0</b>                               | <b>0</b>   | <b>0</b>  | <b>0</b>       |
|                  | Deploy Production Systems                                            |            |                                  |            |           |                |                                        |            |           |                |
|                  | Establish Production Execution Architecture                          | People     | 0                                | 0.25       | 0         | 0              | 0                                      | 0          | 0         | 0              |
|                  | Install production infrastructure                                    | Days       | 0                                | 20         | 0         | 0              | 0                                      | 0          | 0         | 0              |
|                  | Install/configure server hardware                                    | Months     | 0                                | 1          | 0         | 0              | 0                                      | 0          | 0         | 0              |
|                  | Install/configure system software                                    |            |                                  |            |           |                |                                        |            |           |                |
|                  | Install/configure application architecture                           |            |                                  |            |           |                |                                        |            |           |                |
|                  | Establish production instance                                        |            |                                  |            |           |                |                                        |            |           |                |
|                  | Migrate application components                                       |            |                                  |            |           |                |                                        |            |           |                |
|                  | Configure System Management and Ops Infrastructure                   |            |                                  |            |           |                |                                        |            |           |                |
|                  | Install/configure operations mgmt enviro.                            |            |                                  |            |           |                |                                        |            |           |                |
|                  | Finalize operations mgmt procedures                                  |            |                                  |            |           |                |                                        |            |           |                |
|                  | Finalize SLA                                                         |            |                                  |            |           |                |                                        |            |           |                |
|                  | Operational Readiness Test                                           |            |                                  |            |           |                |                                        |            |           |                |
|                  | Plan operational readiness test                                      |            |                                  |            |           |                |                                        |            |           |                |
|                  | Conduct operational readiness test                                   |            |                                  |            |           |                |                                        |            |           |                |
|                  | Make ops adjustments as necessary                                    |            |                                  |            |           |                |                                        |            |           |                |
| <b>6.4</b>       | <b>User Adoption</b>                                                 |            | <b>120</b>                       | <b>320</b> | <b>40</b> | <b>800</b>     | <b>30</b>                              | <b>120</b> | <b>30</b> | <b>0</b>       |
|                  | Assess change readiness                                              |            |                                  |            |           |                |                                        |            |           |                |
|                  | Develop user profile                                                 | People     | 2                                | 4          | 1         | 10             | 0.125                                  | 0.5        | 0.125     | 0              |
|                  | Assess eCommerce readiness                                           | Days       | 20                               | 20         | 20        | 20             | 20                                     | 20         | 20        | 0              |
|                  | Assess general change readiness                                      | Months     | 3                                | 4          | 2         | 4              | 12                                     | 12         | 12        | 0              |
|                  | Assess degree of change needed                                       |            |                                  |            |           |                |                                        |            |           |                |
|                  | Complete Role Definitions and User Role Impact                       |            |                                  |            |           |                |                                        |            |           |                |
|                  | Develop user adoption strategy (Audience Analysis)                   |            |                                  |            |           |                |                                        |            |           |                |
|                  | Define goals                                                         |            |                                  |            |           |                |                                        |            |           |                |
|                  | Determine methods/adoption incentives                                |            |                                  |            |           |                |                                        |            |           |                |
|                  | Document strategy                                                    |            |                                  |            |           |                |                                        |            |           |                |
|                  | Develop user advocacy group                                          |            |                                  |            |           |                |                                        |            |           |                |
|                  | Identify power users                                                 |            |                                  |            |           |                |                                        |            |           |                |
|                  | Conduct initial focus group                                          |            |                                  |            |           |                |                                        |            |           |                |
|                  | Conduct ongoing outreach                                             |            |                                  |            |           |                |                                        |            |           |                |
|                  | Develop materials to support advocacy group                          |            |                                  |            |           |                |                                        |            |           |                |
|                  | Support purchasing process changes                                   |            |                                  |            |           |                |                                        |            |           |                |
|                  | Identify policy or procedure changes required                        |            |                                  |            |           |                |                                        |            |           |                |
|                  | Document changes                                                     |            |                                  |            |           |                |                                        |            |           |                |
|                  | Deliver End User Training (support only; State TTT deliver training) |            |                                  |            |           |                |                                        |            |           |                |
|                  | Provide ongoing support to users                                     |            |                                  |            |           |                |                                        |            |           |                |
|                  | Document common user issues                                          |            |                                  |            |           |                |                                        |            |           |                |
| <b>6.5</b>       | <b>Conversion (parameter loading/conversion)</b>                     |            | <b>20</b>                        | <b>60</b>  | <b>10</b> | <b>0</b>       | <b>0</b>                               | <b>0</b>   | <b>0</b>  | <b>0</b>       |
|                  | Perform Conversion Planning                                          |            |                                  |            |           |                |                                        |            |           |                |
|                  | Develop plans for conversion                                         | People     | 0.5                              | 1          | 0.25      | 0              | 0                                      | 0          | 0         | 0              |
|                  | Verify that all prerequisites have been completed                    | Days       | 20                               | 20         | 20        | 0              | 0                                      | 0          | 0         | 0              |
|                  | Verify that all conversion resources are in place                    | Months     | 2                                | 3          | 2         | 0              | 0                                      | 0          | 0         | 0              |
|                  | Design and Develop Conversion Programs                               |            |                                  |            |           |                |                                        |            |           |                |
|                  | Test Conversion Programs                                             |            |                                  |            |           |                |                                        |            |           |                |
|                  | Resolve any open issues                                              |            |                                  |            |           |                |                                        |            |           |                |
|                  | Verify results                                                       |            |                                  |            |           |                |                                        |            |           |                |
|                  | Execute Conversion Process                                           |            |                                  |            |           |                |                                        |            |           |                |
|                  | Resolve any open issues                                              |            |                                  |            |           |                |                                        |            |           |                |
|                  | Verify results                                                       |            |                                  |            |           |                |                                        |            |           |                |

**E-Procurement Project  
Detailed Workplan  
Agency Involvement**

| Project Workplan |                                                    |         | Client Involvement Year 1 (Days) |       |           |                | Client Involvement Ongoing Yrs. (Days) |     |           |                |
|------------------|----------------------------------------------------|---------|----------------------------------|-------|-----------|----------------|----------------------------------------|-----|-----------|----------------|
|                  |                                                    |         | DOA/P&C                          | OSC   | ITS / IRM | Other Agencies | DOA/P&C                                | OSC | ITS / IRM | Other Agencies |
| Ref.             | Segment/Task/Sub-task                              | Factors |                                  |       |           |                |                                        |     |           |                |
| 7                | <b>GROUP 2 - UNIVERSITIES</b>                      |         |                                  |       |           |                |                                        |     |           |                |
| 7.1              | <b>Business Processes &amp; Work Flow</b>          |         | 20                               | 5     | 10        | 80             | 0                                      | 0   | 0         | 60             |
|                  | Assess Current Processes                           |         |                                  |       |           |                |                                        |     |           |                |
|                  | Review affected business processes                 | People  | 0.5                              | 0.125 | 0.25      | 2              | 0                                      | 0   | 0         | 0.25           |
|                  | Analyze procurement roles and responsibilities     | Days    | 20                               | 20    | 20        | 20             | 0                                      | 0   | 0         | 20             |
|                  | Document integration considerations                | Months  | 2                                | 2     | 2         | 2              | 0                                      | 0   | 0         | 12             |
|                  | Confirm Best Practices/Process Templates           |         |                                  |       |           |                |                                        |     |           |                |
|                  | Review End-to-End Process Model Scenarios          |         |                                  |       |           |                |                                        |     |           |                |
|                  | Map commodities to target scenarios                |         |                                  |       |           |                |                                        |     |           |                |
|                  | Review eProcurement marketplace capabilities       |         |                                  |       |           |                |                                        |     |           |                |
|                  | Review Supplier integration options                |         |                                  |       |           |                |                                        |     |           |                |
|                  | Define Process Characteristics by Organization     |         |                                  |       |           |                |                                        |     |           |                |
|                  | Requisition creation                               |         |                                  |       |           |                |                                        |     |           |                |
|                  | Workflow Approvals (roles,rules,routing)           |         |                                  |       |           |                |                                        |     |           |                |
|                  | Sourcing                                           |         |                                  |       |           |                |                                        |     |           |                |
|                  | Receiving                                          |         |                                  |       |           |                |                                        |     |           |                |
|                  | Matching                                           |         |                                  |       |           |                |                                        |     |           |                |
|                  | Invoice handling                                   |         |                                  |       |           |                |                                        |     |           |                |
|                  | P-Cards                                            |         |                                  |       |           |                |                                        |     |           |                |
|                  | Define User and Configuration Management Process   |         |                                  |       |           |                |                                        |     |           |                |
|                  | Business rule management                           |         |                                  |       |           |                |                                        |     |           |                |
|                  | User & workflow configuration                      |         |                                  |       |           |                |                                        |     |           |                |
|                  | Catalog maintenance                                |         |                                  |       |           |                |                                        |     |           |                |
|                  | Design To-Be Processes                             |         |                                  |       |           |                |                                        |     |           |                |
|                  | Document Procurement Process by Commodity          |         |                                  |       |           |                |                                        |     |           |                |
|                  | Process flow                                       |         |                                  |       |           |                |                                        |     |           |                |
|                  | Controls                                           |         |                                  |       |           |                |                                        |     |           |                |
|                  | Business Document Flow                             |         |                                  |       |           |                |                                        |     |           |                |
| 7.2              | <b>Software Install &amp; Configure</b>            |         | 7.5                              | 0     | 0         | 120            | 0                                      | 0   | 0         | 30             |
|                  | Design Software Modifications (reports/workflow)   |         |                                  |       |           |                |                                        |     |           |                |
|                  | Design Interfaces                                  | People  | 0.125                            | 0     | 0         | 2              | 0                                      | 0   | 0         | 0.125          |
|                  | Build and Unit Test Software Modifications         | Days    | 20                               | 20    | 20        | 20             | 20                                     | 20  | 20        | 20             |
|                  | Build and Unit Test Interfaces                     | Months  | 3                                | 0     | 0         | 3              | 0                                      | 0   | 0         | 12             |
|                  | Configure eProcurement Software                    |         |                                  |       |           |                |                                        |     |           |                |
|                  | Configure permissions (security)                   |         |                                  |       |           |                |                                        |     |           |                |
|                  | Configure Chart of Accounts                        |         |                                  |       |           |                |                                        |     |           |                |
|                  | Configure Org Information                          |         |                                  |       |           |                |                                        |     |           |                |
|                  | Establish workflow approval paths                  |         |                                  |       |           |                |                                        |     |           |                |
|                  | Configure P-Card function                          |         |                                  |       |           |                |                                        |     |           |                |
|                  | Conduct System Test                                |         |                                  |       |           |                |                                        |     |           |                |
|                  | System Test Planning                               |         |                                  |       |           |                |                                        |     |           |                |
|                  | System Test                                        |         |                                  |       |           |                |                                        |     |           |                |
| 7.3              | <b>Production System Readiness</b>                 |         | 0                                | 0     | 0         | 20             | 0                                      | 0   | 0         | 0              |
|                  | Deploy Production Systems                          |         |                                  |       |           |                |                                        |     |           |                |
|                  | Update Production Execution Architecture           | People  | 0                                | 0     | 0         | 0.5            | 0                                      | 0   | 0         | 0              |
|                  | Update (as nec.) production infrastru              | Days    | 0                                | 0     | 0         | 20             | 0                                      | 0   | 0         | 0              |
|                  | Establish Production Instance                      | Months  | 0                                | 0     | 0         | 2              | 0                                      | 0   | 0         | 0              |
|                  | Migrate application components                     |         |                                  |       |           |                |                                        |     |           |                |
|                  | Update System Management and Ops Infrastructure    |         |                                  |       |           |                |                                        |     |           |                |
|                  | Operational Readiness Test                         |         |                                  |       |           |                |                                        |     |           |                |
|                  | Plan operational readiness test                    |         |                                  |       |           |                |                                        |     |           |                |
|                  | Conduct operational readiness test                 |         |                                  |       |           |                |                                        |     |           |                |
|                  | Make ops adjustments as necessary                  |         |                                  |       |           |                |                                        |     |           |                |
| 7.4              | <b>User Adoption</b>                               |         | 0                                | 0     | 0         | 480            | 0                                      | 0   | 0         | 120            |
|                  | Assess change readiness                            |         |                                  |       |           |                |                                        |     |           |                |
|                  | Develop user profile                               | People  | 0                                | 0     | 0         | 6              | 0                                      | 0   | 0         | 0.5            |
|                  | Assess eCommerce readiness                         | Days    | 0                                | 0     | 0         | 20             | 0                                      | 0   | 0         | 20             |
|                  | Assess general change readiness                    | Months  | 0                                | 0     | 0         | 4              | 0                                      | 0   | 0         | 12             |
|                  | Assess degree of change needed                     |         |                                  |       |           |                |                                        |     |           |                |
|                  | Complete Role Definitions and User Role Impact     |         |                                  |       |           |                |                                        |     |           |                |
|                  | Develop user adoption strategy (Audience Analysis) |         |                                  |       |           |                |                                        |     |           |                |
|                  | Define goals                                       |         |                                  |       |           |                |                                        |     |           |                |
|                  | Determine methods/adoption incentives              |         |                                  |       |           |                |                                        |     |           |                |
|                  | Document strategy                                  |         |                                  |       |           |                |                                        |     |           |                |

**E-Procurement Project  
Detailed Workplan  
Agency Involvement**

| Project Workplan |                                                                      |         | Client Involvement Year 1 (Days) |          |           |                | Client Involvement Ongoing Yrs. (Days) |          |           |                |
|------------------|----------------------------------------------------------------------|---------|----------------------------------|----------|-----------|----------------|----------------------------------------|----------|-----------|----------------|
| Ref.             | Segment/Task/Sub-task                                                | Factors | DOA/P&C                          | OSC      | ITS / IRM | Other Agencies | DOA/P&C                                | OSC      | ITS / IRM | Other Agencies |
|                  | Develop user advocacy group                                          |         |                                  |          |           |                |                                        |          |           |                |
|                  | Identify power users                                                 |         |                                  |          |           |                |                                        |          |           |                |
|                  | Conduct initial focus group                                          |         |                                  |          |           |                |                                        |          |           |                |
|                  | Conduct ongoing outreach                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Develop materials to support advocacy group                          |         |                                  |          |           |                |                                        |          |           |                |
|                  | Support purchasing process changes                                   |         |                                  |          |           |                |                                        |          |           |                |
|                  | Identify policy or procedure changes required                        |         |                                  |          |           |                |                                        |          |           |                |
|                  | Document changes                                                     |         |                                  |          |           |                |                                        |          |           |                |
|                  | Deliver End User Training (support only; State TTT deliver training) |         |                                  |          |           |                |                                        |          |           |                |
|                  | Provide ongoing support to users                                     |         |                                  |          |           |                |                                        |          |           |                |
|                  | Document common user issues                                          |         |                                  |          |           |                |                                        |          |           |                |
| <b>7.5</b>       | <b>Conversion</b>                                                    |         | <b>0</b>                         | <b>0</b> | <b>0</b>  | <b>80</b>      | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>0</b>       |
|                  | Perform Conversion Planning                                          |         |                                  |          |           |                |                                        |          |           |                |
|                  | Develop plans for conversion                                         | People  | 0                                | 0        | 0         | 2              | 0                                      | 0        | 0         | 0              |
|                  | Verify that all prerequisites have been completed                    | Days    | 0                                | 0        | 0         | 20             | 0                                      | 0        | 0         | 0              |
|                  | Verify that all conversion resources are in place                    | Months  | 0                                | 0        | 0         | 2              | 0                                      | 0        | 0         | 0              |
|                  | Design and Develop Conversion Programs                               |         |                                  |          |           |                |                                        |          |           |                |
|                  | Test Conversion Programs                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Resolve any open issues                                              |         |                                  |          |           |                |                                        |          |           |                |
|                  | Verify results                                                       |         |                                  |          |           |                |                                        |          |           |                |
|                  | Execute Conversion Process                                           |         |                                  |          |           |                |                                        |          |           |                |
|                  | Resolve any open issues                                              |         |                                  |          |           |                |                                        |          |           |                |
|                  | Verify results                                                       |         |                                  |          |           |                |                                        |          |           |                |
| <b>8</b>         | <b>GROUP 3 - COMMUNITY COLLEGES</b>                                  |         |                                  |          |           |                |                                        |          |           |                |
| <b>8.1</b>       | <b>Business Processes &amp; Work Flow</b>                            |         | <b>20</b>                        | <b>5</b> | <b>10</b> | <b>80</b>      | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>60</b>      |
|                  | Assess Current Processes                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Review affected business processes                                   | People  | 0.5                              | 0.125    | 0.25      | 2              | 0                                      | 0        | 0         | 0.25           |
|                  | Analyze procurement roles and responsibilities                       | Days    | 20                               | 20       | 20        | 20             | 0                                      | 0        | 0         | 20             |
|                  | Document integration considerations                                  | Months  | 2                                | 2        | 2         | 2              | 0                                      | 0        | 0         | 12             |
|                  | Confirm Best Practices/Process Templates                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Review End-to-End Process Model Scenarios                            |         |                                  |          |           |                |                                        |          |           |                |
|                  | Map commodities to target scenarios                                  |         |                                  |          |           |                |                                        |          |           |                |
|                  | Review eProcurement marketplace capabilities                         |         |                                  |          |           |                |                                        |          |           |                |
|                  | Review Supplier integration options                                  |         |                                  |          |           |                |                                        |          |           |                |
|                  | Define Process Characteristics by Organization                       |         |                                  |          |           |                |                                        |          |           |                |
|                  | Requisition creation                                                 |         |                                  |          |           |                |                                        |          |           |                |
|                  | Workflow Approvals (roles,rules,routing)                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Sourcing                                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Receiving                                                            |         |                                  |          |           |                |                                        |          |           |                |
|                  | Matching                                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Invoice handling                                                     |         |                                  |          |           |                |                                        |          |           |                |
|                  | P-Cards                                                              |         |                                  |          |           |                |                                        |          |           |                |
|                  | Define User and Configuration Management Process                     |         |                                  |          |           |                |                                        |          |           |                |
|                  | Business rule management                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | User & workflow configuration                                        |         |                                  |          |           |                |                                        |          |           |                |
|                  | Catalog maintenance                                                  |         |                                  |          |           |                |                                        |          |           |                |
|                  | Design To-Be Processes                                               |         |                                  |          |           |                |                                        |          |           |                |
|                  | Document Procurement Process by Commodity                            |         |                                  |          |           |                |                                        |          |           |                |
|                  | Process flow                                                         |         |                                  |          |           |                |                                        |          |           |                |
|                  | Controls                                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Business Document Flow                                               |         |                                  |          |           |                |                                        |          |           |                |
| <b>8.2</b>       | <b>Software Configure, Modifications &amp; Testing</b>               |         | <b>7.5</b>                       | <b>0</b> | <b>0</b>  | <b>120</b>     | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>30</b>      |
|                  | Design Software Modifications (reports/workflow)                     |         |                                  |          |           |                |                                        |          |           |                |
|                  | Design Interfaces                                                    | People  | 0.125                            | 0        | 0         | 2              | 0                                      | 0        | 0         | 0.125          |
|                  | Build and Unit Test Software Modifications                           | Days    | 20                               | 20       | 20        | 20             | 20                                     | 20       | 20        | 20             |
|                  | Build and Unit Test Interfaces                                       | Months  | 3                                | 0        | 0         | 3              | 0                                      | 0        | 0         | 12             |
|                  | Configure eProcurement Software                                      |         |                                  |          |           |                |                                        |          |           |                |
|                  | Configure permissions (security)                                     |         |                                  |          |           |                |                                        |          |           |                |
|                  | Configure Chart of Accounts                                          |         |                                  |          |           |                |                                        |          |           |                |
|                  | Configure Org Information                                            |         |                                  |          |           |                |                                        |          |           |                |
|                  | Establish workflow approval paths                                    |         |                                  |          |           |                |                                        |          |           |                |
|                  | Configure P-Card function                                            |         |                                  |          |           |                |                                        |          |           |                |



**E-Procurement Project  
Detailed Workplan  
Agency Involvement**

| Project Workplan |                                                                      |         | Client Involvement Year 1 (Days) |          |           |                | Client Involvement Ongoing Yrs. (Days) |          |           |                |
|------------------|----------------------------------------------------------------------|---------|----------------------------------|----------|-----------|----------------|----------------------------------------|----------|-----------|----------------|
|                  |                                                                      |         | DOA/P&C                          | OSC      | ITS / IRM | Other Agencies | DOA/P&C                                | OSC      | ITS / IRM | Other Agencies |
| Ref.             | Segment/Task/Sub-task                                                | Factors |                                  |          |           |                |                                        |          |           |                |
|                  | Conduct System Test                                                  |         |                                  |          |           |                |                                        |          |           |                |
|                  | System Test Planning                                                 |         |                                  |          |           |                |                                        |          |           |                |
|                  | System Test                                                          |         |                                  |          |           |                |                                        |          |           |                |
| <b>8.3</b>       | <b>Production System Readiness</b>                                   |         | <b>0</b>                         | <b>0</b> | <b>0</b>  | <b>20</b>      | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>0</b>       |
|                  | Deploy Production Systems                                            |         |                                  |          |           |                |                                        |          |           |                |
|                  | Update Production Execution Architecture                             | People  | 0                                | 0        | 0         | 0.5            | 0                                      | 0        | 0         | 0              |
|                  | Update (as nec.) production infrastru                                | Days    | 0                                | 0        | 0         | 20             | 0                                      | 0        | 0         | 0              |
|                  | Establish Production Instance                                        | Months  | 0                                | 0        | 0         | 2              | 0                                      | 0        | 0         | 0              |
|                  | Migrate application components                                       |         |                                  |          |           |                |                                        |          |           |                |
|                  | Update System Management and Ops Infrastructure                      |         |                                  |          |           |                |                                        |          |           |                |
|                  | Operational Readiness Test                                           |         |                                  |          |           |                |                                        |          |           |                |
|                  | Plan operational readiness test                                      |         |                                  |          |           |                |                                        |          |           |                |
|                  | Conduct operational readiness test                                   |         |                                  |          |           |                |                                        |          |           |                |
|                  | Make ops adjustments as necessary                                    |         |                                  |          |           |                |                                        |          |           |                |
| <b>8.4</b>       | <b>User Adoption</b>                                                 |         | <b>0</b>                         | <b>0</b> | <b>0</b>  | <b>480</b>     | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>120</b>     |
|                  | Assess change readiness                                              |         |                                  |          |           |                |                                        |          |           |                |
|                  | Develop user profile                                                 | People  | 0                                | 0        | 0         | 6              | 0                                      | 0        | 0         | 0.5            |
|                  | Assess eCommerce readiness                                           | Days    | 0                                | 0        | 0         | 20             | 0                                      | 0        | 0         | 20             |
|                  | Complete Role Definitions and User Role Impact                       | Months  | 0                                | 0        | 0         | 4              | 0                                      | 0        | 0         | 12             |
|                  | Develop user adoption strategy (Audience Analysis)                   |         |                                  |          |           |                |                                        |          |           |                |
|                  | Define goals                                                         |         |                                  |          |           |                |                                        |          |           |                |
|                  | Determine methods/adoption incentives                                |         |                                  |          |           |                |                                        |          |           |                |
|                  | Document strategy                                                    |         |                                  |          |           |                |                                        |          |           |                |
|                  | Develop user advocacy group                                          |         |                                  |          |           |                |                                        |          |           |                |
|                  | Identify power users                                                 |         |                                  |          |           |                |                                        |          |           |                |
|                  | Conduct initial focus group                                          |         |                                  |          |           |                |                                        |          |           |                |
|                  | Conduct ongoing outreach                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Develop materials to support advocacy group                          |         |                                  |          |           |                |                                        |          |           |                |
|                  | Support purchasing process changes                                   |         |                                  |          |           |                |                                        |          |           |                |
|                  | Identify policy or procedure changes required                        |         |                                  |          |           |                |                                        |          |           |                |
|                  | Document changes                                                     |         |                                  |          |           |                |                                        |          |           |                |
|                  | Deliver End User Training (support only; State TTT deliver training) |         |                                  |          |           |                |                                        |          |           |                |
|                  | Provide ongoing support to users                                     |         |                                  |          |           |                |                                        |          |           |                |
|                  | Document common user issues                                          |         |                                  |          |           |                |                                        |          |           |                |
| <b>8.5</b>       | <b>Conversion</b>                                                    |         | <b>0</b>                         | <b>0</b> | <b>0</b>  | <b>80</b>      | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>0</b>       |
|                  | Perform Conversion Planning                                          |         |                                  |          |           |                |                                        |          |           |                |
|                  | Develop plans for conversion                                         | People  | 0                                | 0        | 0         | 2              | 0                                      | 0        | 0         | 0              |
|                  | Verify that all prerequisites have been completed                    | Days    | 0                                | 0        | 0         | 20             | 0                                      | 0        | 0         | 0              |
|                  | Verify that all conversion resources are in place                    | Months  | 0                                | 0        | 0         | 2              | 0                                      | 0        | 0         | 0              |
|                  | Design and Develop Conversion Programs                               |         |                                  |          |           |                |                                        |          |           |                |
|                  | Test Conversion Programs                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Resolve any open issues                                              |         |                                  |          |           |                |                                        |          |           |                |
|                  | Verify results                                                       |         |                                  |          |           |                |                                        |          |           |                |
|                  | Execute Conversion Process                                           |         |                                  |          |           |                |                                        |          |           |                |
|                  | Resolve any open issues                                              |         |                                  |          |           |                |                                        |          |           |                |
|                  | Verify results                                                       |         |                                  |          |           |                |                                        |          |           |                |
| <b>9</b>         | <b>GROUP 4 - LEA</b>                                                 |         |                                  |          |           |                |                                        |          |           |                |
| <b>9.1</b>       | <b>Business Processes &amp; Work Flow</b>                            |         | <b>20</b>                        | <b>5</b> | <b>10</b> | <b>80</b>      | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>30</b>      |
|                  | Assess Current Processes                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Review affected business processes                                   | People  | 0.5                              | 0.125    | 0.25      | 2              | 0                                      | 0        | 0         | 0.125          |
|                  | Analyze procurement roles and responsibilities                       | Days    | 20                               | 20       | 20        | 20             | 0                                      | 0        | 0         | 20             |
|                  | Document integration considerations                                  | Months  | 2                                | 2        | 2         | 2              | 0                                      | 0        | 0         | 12             |
|                  | Confirm Best Practices/Process Templates                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Review End-to-End Process Model Scenarios                            |         |                                  |          |           |                |                                        |          |           |                |
|                  | Map commodities to target scenarios                                  |         |                                  |          |           |                |                                        |          |           |                |
|                  | Review eProcurement marketplace capabilities                         |         |                                  |          |           |                |                                        |          |           |                |
|                  | Review Supplier integration options                                  |         |                                  |          |           |                |                                        |          |           |                |
|                  | Define Process Characteristics by Organization                       |         |                                  |          |           |                |                                        |          |           |                |
|                  | Requisition creation                                                 |         |                                  |          |           |                |                                        |          |           |                |
|                  | Workflow Approvals (roles,rules,routing)                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Sourcing                                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Receiving                                                            |         |                                  |          |           |                |                                        |          |           |                |

**E-Procurement Project  
Detailed Workplan  
Agency Involvement**

| Project Workplan |                                                                      | Factors | Client Involvement Year 1 (Days) |          |           |                | Client Involvement Ongoing Yrs. (Days) |          |           |                |
|------------------|----------------------------------------------------------------------|---------|----------------------------------|----------|-----------|----------------|----------------------------------------|----------|-----------|----------------|
|                  |                                                                      |         | DOA/P&C                          | OSC      | ITS / IRM | Other Agencies | DOA/P&C                                | OSC      | ITS / IRM | Other Agencies |
|                  |                                                                      |         |                                  |          |           |                |                                        |          |           |                |
| Ref.             | Segment/Task/Sub-task                                                |         |                                  |          |           |                |                                        |          |           |                |
|                  | Matching                                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Invoice handling                                                     |         |                                  |          |           |                |                                        |          |           |                |
|                  | P-Cards                                                              |         |                                  |          |           |                |                                        |          |           |                |
|                  | Define User and Configuration Management Process                     |         |                                  |          |           |                |                                        |          |           |                |
|                  | Business rule management                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | User & workflow configuration                                        |         |                                  |          |           |                |                                        |          |           |                |
|                  | Catalog maintenance                                                  |         |                                  |          |           |                |                                        |          |           |                |
|                  | Design To-Be Processes                                               |         |                                  |          |           |                |                                        |          |           |                |
|                  | Document Procurement Process by Commodity                            |         |                                  |          |           |                |                                        |          |           |                |
|                  | Process flow                                                         |         |                                  |          |           |                |                                        |          |           |                |
|                  | Controls                                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Business Document Flow                                               |         |                                  |          |           |                |                                        |          |           |                |
| <b>9.2</b>       | <b>Software Install &amp; Configure</b>                              |         | <b>7.5</b>                       | <b>0</b> | <b>0</b>  | <b>120</b>     | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>30</b>      |
|                  | Design Software Modifications (reports/workflow)                     |         |                                  |          |           |                |                                        |          |           |                |
|                  | Design Interfaces                                                    | People  | 0.125                            | 0        | 0         | 2              | 0                                      | 0        | 0         | 0.125          |
|                  | Build and Unit Test Software Modifications                           | Days    | 20                               | 20       | 20        | 20             | 20                                     | 20       | 20        | 20             |
|                  | Build and Unit Test Interfaces                                       | Months  | 3                                | 0        | 0         | 3              | 0                                      | 0        | 0         | 12             |
|                  | Configure eProcurement Software                                      |         |                                  |          |           |                |                                        |          |           |                |
|                  | Configure permissions (security)                                     |         |                                  |          |           |                |                                        |          |           |                |
|                  | Configure Chart of Accounts                                          |         |                                  |          |           |                |                                        |          |           |                |
|                  | Configure Org Information                                            |         |                                  |          |           |                |                                        |          |           |                |
|                  | Establish workflow approval paths                                    |         |                                  |          |           |                |                                        |          |           |                |
|                  | Configure P-Card function                                            |         |                                  |          |           |                |                                        |          |           |                |
|                  | Conduct System Test                                                  |         |                                  |          |           |                |                                        |          |           |                |
|                  | System Test Planning                                                 |         |                                  |          |           |                |                                        |          |           |                |
|                  | System Test                                                          |         |                                  |          |           |                |                                        |          |           |                |
| <b>9.3</b>       | <b>Production System Readiness</b>                                   |         | <b>0</b>                         | <b>0</b> | <b>0</b>  | <b>20</b>      | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>0</b>       |
|                  | Deploy Production Systems                                            |         |                                  |          |           |                |                                        |          |           |                |
|                  | Update Production Execution Architecture                             | People  | 0                                | 0        | 0         | 0.5            | 0                                      | 0        | 0         | 0              |
|                  | Update (as nec.) production infrastru                                | Days    | 0                                | 0        | 0         | 20             | 0                                      | 0        | 0         | 0              |
|                  | Establish Production Instance                                        | Months  | 0                                | 0        | 0         | 2              | 0                                      | 0        | 0         | 0              |
|                  | Migrate application components                                       |         |                                  |          |           |                |                                        |          |           |                |
|                  | Update System Management and Ops Infrastructure                      |         |                                  |          |           |                |                                        |          |           |                |
|                  | Operational Readiness Test                                           |         |                                  |          |           |                |                                        |          |           |                |
|                  | Plan operational readiness test                                      |         |                                  |          |           |                |                                        |          |           |                |
|                  | Conduct operational readiness test                                   |         |                                  |          |           |                |                                        |          |           |                |
|                  | Make ops adjustments as necessary                                    |         |                                  |          |           |                |                                        |          |           |                |
| <b>9.4</b>       | <b>User Adoption</b>                                                 |         | <b>0</b>                         | <b>0</b> | <b>0</b>  | <b>480</b>     | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>120</b>     |
|                  | Assess change readiness                                              |         |                                  |          |           |                |                                        |          |           |                |
|                  | Develop user profile                                                 | People  | 0                                | 0        | 0         | 6              | 0                                      | 0        | 0         | 0.5            |
|                  | Assess eCommerce readiness                                           | Days    | 0                                | 0        | 0         | 20             | 0                                      | 0        | 0         | 20             |
|                  | Complete Role Definitions and User Role Impact                       | Months  | 0                                | 0        | 0         | 4              | 0                                      | 0        | 0         | 12             |
|                  | Develop user adoption strategy (Audience Analysis)                   |         |                                  |          |           |                |                                        |          |           |                |
|                  | Define goals                                                         |         |                                  |          |           |                |                                        |          |           |                |
|                  | Determine methods/adoption incentives                                |         |                                  |          |           |                |                                        |          |           |                |
|                  | Document strategy                                                    |         |                                  |          |           |                |                                        |          |           |                |
|                  | Develop user advocacy group                                          |         |                                  |          |           |                |                                        |          |           |                |
|                  | Identify power users                                                 |         |                                  |          |           |                |                                        |          |           |                |
|                  | Conduct initial focus group                                          |         |                                  |          |           |                |                                        |          |           |                |
|                  | Conduct ongoing outreach                                             |         |                                  |          |           |                |                                        |          |           |                |
|                  | Develop materials to support advocacy group                          |         |                                  |          |           |                |                                        |          |           |                |
|                  | Support purchasing process changes                                   |         |                                  |          |           |                |                                        |          |           |                |
|                  | Identify policy or procedure changes required                        |         |                                  |          |           |                |                                        |          |           |                |
|                  | Document changes                                                     |         |                                  |          |           |                |                                        |          |           |                |
|                  | Deliver End User Training (support only; State TTT deliver training) |         |                                  |          |           |                |                                        |          |           |                |
|                  | Provide ongoing support to users                                     |         |                                  |          |           |                |                                        |          |           |                |
|                  | Document common user issues                                          |         |                                  |          |           |                |                                        |          |           |                |
| <b>9.5</b>       | <b>Conversion</b>                                                    |         | <b>0</b>                         | <b>0</b> | <b>0</b>  | <b>80</b>      | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>0</b>       |
|                  | Perform Conversion Planning                                          |         |                                  |          |           |                |                                        |          |           |                |
|                  | Develop plans for conversion                                         | People  | 0                                | 0        | 0         | 2              | 0                                      | 0        | 0         | 0              |
|                  | Verify that all prerequisites have been completed                    | Days    | 0                                | 0        | 0         | 20             | 0                                      | 0        | 0         | 0              |
|                  | Verify that all conversion resources are in place                    | Months  | 0                                | 0        | 0         | 2              | 0                                      | 0        | 0         | 0              |
|                  | Design and Develop Conversion Programs                               |         |                                  |          |           |                |                                        |          |           |                |
|                  | Test Conversion Programs                                             |         |                                  |          |           |                |                                        |          |           |                |

**E-Procurement Project  
Detailed Workplan  
Agency Involvement**

| Project Workplan |                                                  |         | Client Involvement Year 1 (Days) |            |           |                | Client Involvement Ongoing Yrs. (Days) |          |           |                |
|------------------|--------------------------------------------------|---------|----------------------------------|------------|-----------|----------------|----------------------------------------|----------|-----------|----------------|
|                  |                                                  |         | DOA/P&C                          | OSC        | ITS / IRM | Other Agencies | DOA/P&C                                | OSC      | ITS / IRM | Other Agencies |
| Ref.             | Segment/Task/Sub-task                            | Factors |                                  |            |           |                |                                        |          |           |                |
|                  | Resolve any open issues                          |         |                                  |            |           |                |                                        |          |           |                |
|                  | Verify results                                   |         |                                  |            |           |                |                                        |          |           |                |
|                  | Execute Conversion Process                       |         |                                  |            |           |                |                                        |          |           |                |
|                  | Resolve any open issues                          |         |                                  |            |           |                |                                        |          |           |                |
|                  | Verify results                                   |         |                                  |            |           |                |                                        |          |           |                |
| <b>10</b>        | <b>GROUP 5 - DOT</b>                             |         |                                  |            |           |                |                                        |          |           |                |
| <b>10.1</b>      | <b>Business Processes &amp; Work Flow</b>        |         | <b>60</b>                        | <b>120</b> | <b>15</b> | <b>240</b>     | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>240</b>     |
|                  | Assess Current Processes                         |         |                                  |            |           |                |                                        |          |           |                |
|                  | Review affected business processes               | People  | 1                                | 2          | 0.25      | 4              | 0                                      | 0        | 0         | 1              |
|                  | Analyze procurement roles and responsibilities   | Days    | 20                               | 20         | 20        | 20             | 0                                      | 0        | 0         | 20             |
|                  | Document integration considerations              | Months  | 3                                | 3          | 3         | 3              | 0                                      | 0        | 0         | 12             |
|                  | Confirm Best Practices/Process Templates         |         |                                  |            |           |                |                                        |          |           |                |
|                  | Review End-to-End Process Model Scenarios        |         |                                  |            |           |                |                                        |          |           |                |
|                  | Map commodities to target scenarios              |         |                                  |            |           |                |                                        |          |           |                |
|                  | Review eProcurement marketplace capabilities     |         |                                  |            |           |                |                                        |          |           |                |
|                  | Review Supplier integration options              |         |                                  |            |           |                |                                        |          |           |                |
|                  | Define Process Characteristics by Organization   |         |                                  |            |           |                |                                        |          |           |                |
|                  | Requisition creation                             |         |                                  |            |           |                |                                        |          |           |                |
|                  | Workflow Approvals (roles,rules,routing)         |         |                                  |            |           |                |                                        |          |           |                |
|                  | Sourcing                                         |         |                                  |            |           |                |                                        |          |           |                |
|                  | Receiving                                        |         |                                  |            |           |                |                                        |          |           |                |
|                  | Matching                                         |         |                                  |            |           |                |                                        |          |           |                |
|                  | Invoice handling                                 |         |                                  |            |           |                |                                        |          |           |                |
|                  | P-Cards                                          |         |                                  |            |           |                |                                        |          |           |                |
|                  | Define User and Configuration Management Process |         |                                  |            |           |                |                                        |          |           |                |
|                  | Business rule management                         |         |                                  |            |           |                |                                        |          |           |                |
|                  | User & workflow configuration                    |         |                                  |            |           |                |                                        |          |           |                |
|                  | Catalog maintenance                              |         |                                  |            |           |                |                                        |          |           |                |
|                  | Design To-Be Processes                           |         |                                  |            |           |                |                                        |          |           |                |
|                  | Document Procurement Process by Commodity        |         |                                  |            |           |                |                                        |          |           |                |
|                  | Process flow                                     |         |                                  |            |           |                |                                        |          |           |                |
|                  | Controls                                         |         |                                  |            |           |                |                                        |          |           |                |
|                  | Business Document Flow                           |         |                                  |            |           |                |                                        |          |           |                |
| <b>10.2</b>      | <b>Software Install &amp; Configure</b>          |         | <b>15</b>                        | <b>60</b>  | <b>15</b> | <b>300</b>     | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>240</b>     |
|                  | Design Software Modifications (reports/workflow) |         |                                  |            |           |                |                                        |          |           |                |
|                  | Design Interfaces                                | People  | 0.25                             | 1          | 0.25      | 5              | 0                                      | 0        | 0         | 1              |
|                  | Build and Unit Test Software Modifications       | Days    | 20                               | 20         | 20        | 20             | 0                                      | 0        | 0         | 20             |
|                  | Build and Unit Test Interfaces                   | Months  | 3                                | 3          | 3         | 3              | 0                                      | 0        | 0         | 12             |
|                  | Configure eProcurement Software                  |         |                                  |            |           |                |                                        |          |           |                |
|                  | Configure permissions (security)                 |         |                                  |            |           |                |                                        |          |           |                |
|                  | Configure Chart of Accounts                      |         |                                  |            |           |                |                                        |          |           |                |
|                  | Configure Org Information                        |         |                                  |            |           |                |                                        |          |           |                |
|                  | Establish workflow approval paths                |         |                                  |            |           |                |                                        |          |           |                |
|                  | Configure P-Card function                        |         |                                  |            |           |                |                                        |          |           |                |
|                  | Conduct System Test                              |         |                                  |            |           |                |                                        |          |           |                |
|                  | System Test Planning                             |         |                                  |            |           |                |                                        |          |           |                |
|                  | System Test                                      |         |                                  |            |           |                |                                        |          |           |                |
| <b>10.3</b>      | <b>Production System Readiness</b>               |         | <b>0</b>                         | <b>0</b>   | <b>0</b>  | <b>80</b>      | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>0</b>       |
|                  | Deploy Production Systems                        |         |                                  |            |           |                |                                        |          |           |                |
|                  | Update Production Execution Architecture         | People  | 0                                | 0          | 0         | 2              | 0                                      | 0        | 0         | 0              |
|                  | Update (as nec.) production infrastru            | Days    | 0                                | 0          | 0         | 20             | 0                                      | 0        | 0         | 0              |
|                  | Establish Production Instance                    | Months  | 0                                | 0          | 0         | 2              | 0                                      | 0        | 0         | 0              |
|                  | Migrate application components                   |         |                                  |            |           |                |                                        |          |           |                |
|                  | Update System Management and Ops Infrastructure  |         |                                  |            |           |                |                                        |          |           |                |
|                  | Operational Readiness Test                       |         |                                  |            |           |                |                                        |          |           |                |
|                  | Plan operational readiness test                  |         |                                  |            |           |                |                                        |          |           |                |
|                  | Conduct operational readiness test               |         |                                  |            |           |                |                                        |          |           |                |
|                  | Make ops adjustments as necessary                |         |                                  |            |           |                |                                        |          |           |                |
| <b>10.4</b>      | <b>User Adoption</b>                             |         | <b>0</b>                         | <b>0</b>   | <b>0</b>  | <b>640</b>     | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>240</b>     |
|                  | Assess change readiness                          |         |                                  |            |           |                |                                        |          |           |                |
|                  | Develop user profile                             | People  | 0                                | 0          | 0         | 8              | 0                                      | 0        | 0         | 1              |
|                  | Assess eCommerce readiness                       | Days    | 0                                | 0          | 0         | 20             | 0                                      | 0        | 0         | 20             |
|                  | Assess general change readiness                  | Months  | 0                                | 0          | 0         | 4              | 0                                      | 0        | 0         | 12             |

**E-Procurement Project  
Detailed Workplan  
Agency Involvement**

| Project Workplan |                                                                      |         | Client Involvement Year 1 (Days) |            |            |                | Client Involvement Ongoing Yrs. (Days) |          |           |                |
|------------------|----------------------------------------------------------------------|---------|----------------------------------|------------|------------|----------------|----------------------------------------|----------|-----------|----------------|
|                  |                                                                      |         | DOA/P&C                          | OSC        | ITS / IRM  | Other Agencies | DOA/P&C                                | OSC      | ITS / IRM | Other Agencies |
| Ref.             | Segment/Task/Sub-task                                                | Factors |                                  |            |            |                |                                        |          |           |                |
|                  | Assess degree of change needed                                       |         |                                  |            |            |                |                                        |          |           |                |
|                  | Complete Role Definitions and User Role Impact                       |         |                                  |            |            |                |                                        |          |           |                |
|                  | Develop user adoption strategy (Audience Analysis)                   |         |                                  |            |            |                |                                        |          |           |                |
|                  | Define goals                                                         |         |                                  |            |            |                |                                        |          |           |                |
|                  | Determine methods/adoption incentives                                |         |                                  |            |            |                |                                        |          |           |                |
|                  | Document strategy                                                    |         |                                  |            |            |                |                                        |          |           |                |
|                  | Develop user advocacy group                                          |         |                                  |            |            |                |                                        |          |           |                |
|                  | Identify power users                                                 |         |                                  |            |            |                |                                        |          |           |                |
|                  | Conduct initial focus group                                          |         |                                  |            |            |                |                                        |          |           |                |
|                  | Conduct ongoing outreach                                             |         |                                  |            |            |                |                                        |          |           |                |
|                  | Develop materials to support advocacy group                          |         |                                  |            |            |                |                                        |          |           |                |
|                  | Support purchasing process changes                                   |         |                                  |            |            |                |                                        |          |           |                |
|                  | Identify policy or procedure changes required                        |         |                                  |            |            |                |                                        |          |           |                |
|                  | Document changes                                                     |         |                                  |            |            |                |                                        |          |           |                |
|                  | Deliver End User Training (support only; State TTT deliver training) |         |                                  |            |            |                |                                        |          |           |                |
|                  | Provide ongoing support to users                                     |         |                                  |            |            |                |                                        |          |           |                |
|                  | Document common user issues                                          |         |                                  |            |            |                |                                        |          |           |                |
| <b>10.5</b>      | <b>Conversion</b>                                                    |         | <b>0</b>                         | <b>0</b>   | <b>0</b>   | <b>80</b>      | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>0</b>       |
|                  | Perform Conversion Planning                                          |         |                                  |            |            |                |                                        |          |           |                |
|                  | Develop plans for conversion                                         | People  | 0                                | 0          | 0          | 2              | 0                                      | 0        | 0         | 0              |
|                  | Verify that all prerequisites have been completed                    | Days    | 0                                | 0          | 0          | 20             | 0                                      | 0        | 0         | 0              |
|                  | Verify that all conversion resources are in place                    | Months  | 0                                | 0          | 0          | 2              | 0                                      | 0        | 0         | 0              |
|                  | Design and Develop Conversion Programs                               |         |                                  |            |            |                |                                        |          |           |                |
|                  | Test Conversion Programs                                             |         |                                  |            |            |                |                                        |          |           |                |
|                  | Resolve any open issues                                              |         |                                  |            |            |                |                                        |          |           |                |
|                  | Verify results                                                       |         |                                  |            |            |                |                                        |          |           |                |
|                  | Execute Conversion Process                                           |         |                                  |            |            |                |                                        |          |           |                |
|                  | Resolve any open issues                                              |         |                                  |            |            |                |                                        |          |           |                |
|                  | Verify results                                                       |         |                                  |            |            |                |                                        |          |           |                |
| <b>11</b>        | <b>GROUP 6 - Counties and Municipalities</b>                         |         |                                  |            |            |                |                                        |          |           |                |
| <b>11.1</b>      | <b>Business Processes &amp; Work Flow</b>                            |         | <b>10</b>                        | <b>10</b>  | <b>10</b>  | <b>200</b>     | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>200</b>     |
|                  | Assess Current Processes                                             |         |                                  |            |            |                |                                        |          |           |                |
|                  | Review affected business processes                                   | People  | 0.25                             | 0.25       | 0.25       | 5              | 0                                      | 0        | 0         | 5              |
|                  | Analyze procurement roles and responsibilities                       | Days    | 20                               | 20         | 20         | 20             | 0                                      | 0        | 0         | 20             |
|                  | Document integration considerations                                  | Months  | 2                                | 2          | 2          | 2              | 0                                      | 0        | 0         | 2              |
|                  | Confirm Best Practices/Process Templates                             |         |                                  |            |            |                |                                        |          |           |                |
|                  | Review End-to-End Process Model Scenarios                            |         |                                  |            |            |                |                                        |          |           |                |
|                  | Map commodities to target scenarios                                  |         |                                  |            |            |                |                                        |          |           |                |
|                  | Review eProcurement marketplace capabilities                         |         |                                  |            |            |                |                                        |          |           |                |
|                  | Review Supplier integration options                                  |         |                                  |            |            |                |                                        |          |           |                |
|                  | Define Process Characteristics by Organization                       |         |                                  |            |            |                |                                        |          |           |                |
|                  | Requisition creation                                                 |         |                                  |            |            |                |                                        |          |           |                |
|                  | Workflow Approvals (roles,rules,routing)                             |         |                                  |            |            |                |                                        |          |           |                |
|                  | Sourcing                                                             |         |                                  |            |            |                |                                        |          |           |                |
|                  | Receiving                                                            |         |                                  |            |            |                |                                        |          |           |                |
|                  | Matching                                                             |         |                                  |            |            |                |                                        |          |           |                |
|                  | Invoice handling                                                     |         |                                  |            |            |                |                                        |          |           |                |
|                  | P-Cards                                                              |         |                                  |            |            |                |                                        |          |           |                |
|                  | Define User and Configuration Management Process                     |         |                                  |            |            |                |                                        |          |           |                |
|                  | Business rule management                                             |         |                                  |            |            |                |                                        |          |           |                |
|                  | User & workflow configuration                                        |         |                                  |            |            |                |                                        |          |           |                |
|                  | Catalog maintenance                                                  |         |                                  |            |            |                |                                        |          |           |                |
|                  | Design To-Be Processes                                               |         |                                  |            |            |                |                                        |          |           |                |
|                  | Document Procurement Process by Commodity                            |         |                                  |            |            |                |                                        |          |           |                |
|                  | Process flow                                                         |         |                                  |            |            |                |                                        |          |           |                |
|                  | Controls                                                             |         |                                  |            |            |                |                                        |          |           |                |
|                  | Business Document Flow                                               |         |                                  |            |            |                |                                        |          |           |                |
| <b>11.2</b>      | <b>Software Install &amp; Configure</b>                              |         | <b>7.5</b>                       | <b>7.5</b> | <b>7.5</b> | <b>300</b>     | <b>0</b>                               | <b>0</b> | <b>0</b>  | <b>300</b>     |
|                  | Design Software Modifications (reports/workflow)                     |         |                                  |            |            |                |                                        |          |           |                |
|                  | Design Interfaces                                                    | People  | 0.125                            | 0.125      | 0.125      | 5              | 0                                      | 0        | 0         | 5              |
|                  | Build and Unit Test Software Modifications                           | Days    | 20                               | 20         | 20         | 20             | 0                                      | 0        | 0         | 20             |
|                  | Build and Unit Test Interfaces                                       | Months  | 3                                | 3          | 3          | 3              | 0                                      | 0        | 0         | 3              |
|                  | Configure eProcurement Software                                      |         |                                  |            |            |                |                                        |          |           |                |

**E-Procurement Project  
Detailed Workplan  
Agency Involvement**

| Project Workplan |                                                                      |             | Client Involvement Year 1 (Days) |            |           |                | Client Involvement Ongoing Yrs. (Days) |           |           |                |
|------------------|----------------------------------------------------------------------|-------------|----------------------------------|------------|-----------|----------------|----------------------------------------|-----------|-----------|----------------|
|                  |                                                                      |             | DOA/P&C                          | OSC        | ITS / IRM | Other Agencies | DOA/P&C                                | OSC       | ITS / IRM | Other Agencies |
| Ref.             | Segment/Task/Sub-task                                                | Factors     |                                  |            |           |                |                                        |           |           |                |
|                  | Configure permissions (security)                                     |             |                                  |            |           |                |                                        |           |           |                |
|                  | Configure Chart of Accounts                                          |             |                                  |            |           |                |                                        |           |           |                |
|                  | Configure Org Information                                            |             |                                  |            |           |                |                                        |           |           |                |
|                  | Establish workflow approval paths                                    |             |                                  |            |           |                |                                        |           |           |                |
|                  | Configure P-Card function                                            |             |                                  |            |           |                |                                        |           |           |                |
|                  | Conduct System Test                                                  |             |                                  |            |           |                |                                        |           |           |                |
|                  | System Test Planning                                                 |             |                                  |            |           |                |                                        |           |           |                |
|                  | System Test                                                          |             |                                  |            |           |                |                                        |           |           |                |
| <b>11.3</b>      | <b>Production System Readiness</b>                                   |             | <b>0</b>                         | <b>0</b>   | <b>0</b>  | <b>80</b>      | <b>0</b>                               | <b>0</b>  | <b>0</b>  | <b>0</b>       |
|                  | Deploy Production Systems                                            |             |                                  |            |           |                |                                        |           |           |                |
|                  | Update Production Execution Architecture                             | People      | 0                                | 0          | 0         | 2              | 0                                      | 0         | 0         | 0              |
|                  | Update (as nec.) production infrastru                                | Days        | 0                                | 0          | 0         | 20             | 0                                      | 0         | 0         | 0              |
|                  | Establish Production Instance                                        | Months      | 0                                | 0          | 0         | 2              | 0                                      | 0         | 0         | 0              |
|                  | Migrate application components                                       |             |                                  |            |           |                |                                        |           |           |                |
|                  | Update System Management and Ops Infrastructure                      |             |                                  |            |           |                |                                        |           |           |                |
|                  | Operational Readiness Test                                           |             |                                  |            |           |                |                                        |           |           |                |
|                  | Plan operational readiness test                                      |             |                                  |            |           |                |                                        |           |           |                |
|                  | Conduct operational readiness test                                   |             |                                  |            |           |                |                                        |           |           |                |
|                  | Make ops adjustments as necessary                                    |             |                                  |            |           |                |                                        |           |           |                |
| <b>11.4</b>      | <b>User Adoption</b>                                                 |             | <b>0</b>                         | <b>0</b>   | <b>0</b>  | <b>800</b>     | <b>0</b>                               | <b>0</b>  | <b>0</b>  | <b>360</b>     |
|                  | Assess change readiness                                              |             |                                  |            |           |                |                                        |           |           |                |
|                  | Develop user profile                                                 | People      | 0                                | 0          | 0         | 10             | 0                                      | 0         | 0         | 1.5            |
|                  | Assess eCommerce readiness                                           | Days        | 0                                | 0          | 0         | 20             | 0                                      | 0         | 0         | 20             |
|                  | Complete Role Definitions and User Role Impact                       | Months      | 0                                | 0          | 0         | 4              | 0                                      | 0         | 0         | 12             |
|                  | Develop user adoption strategy (Audience Analysis)                   |             |                                  |            |           |                |                                        |           |           |                |
|                  | Define goals                                                         |             |                                  |            |           |                |                                        |           |           |                |
|                  | Determine methods/adoption incentives                                |             |                                  |            |           |                |                                        |           |           |                |
|                  | Document strategy                                                    |             |                                  |            |           |                |                                        |           |           |                |
|                  | Develop user advocacy group                                          |             |                                  |            |           |                |                                        |           |           |                |
|                  | Identify power users                                                 |             |                                  |            |           |                |                                        |           |           |                |
|                  | Conduct initial focus group                                          |             |                                  |            |           |                |                                        |           |           |                |
|                  | Conduct ongoing outreach                                             |             |                                  |            |           |                |                                        |           |           |                |
|                  | Develop materials to support advocacy group                          |             |                                  |            |           |                |                                        |           |           |                |
|                  | Support purchasing process changes                                   |             |                                  |            |           |                |                                        |           |           |                |
|                  | Identify policy or procedure changes required                        |             |                                  |            |           |                |                                        |           |           |                |
|                  | Document changes                                                     |             |                                  |            |           |                |                                        |           |           |                |
|                  | Deliver End User Training (support only; State TTT deliver training) |             |                                  |            |           |                |                                        |           |           |                |
|                  | Provide ongoing support to users                                     |             |                                  |            |           |                |                                        |           |           |                |
|                  | Document common user issues                                          |             |                                  |            |           |                |                                        |           |           |                |
| <b>11.5</b>      | <b>Conversion</b>                                                    |             | <b>0</b>                         | <b>0</b>   | <b>0</b>  | <b>80</b>      | <b>0</b>                               | <b>0</b>  | <b>0</b>  | <b>0</b>       |
|                  | Perform Conversion Planning                                          |             |                                  |            |           |                |                                        |           |           |                |
|                  | Develop plans for conversion                                         | People      | 0                                | 0          | 0         | 2              | 0                                      | 0         | 0         | 0              |
|                  | Verify that all prerequisites have been completed                    | Days        | 0                                | 0          | 0         | 20             | 0                                      | 0         | 0         | 0              |
|                  | Verify that all conversion resources are in place                    | Months      | 0                                | 0          | 0         | 2              | 0                                      | 0         | 0         | 0              |
|                  | Design and Develop Conversion Programs                               |             |                                  |            |           |                |                                        |           |           |                |
|                  | Test Conversion Programs                                             |             |                                  |            |           |                |                                        |           |           |                |
|                  | Resolve any open issues                                              |             |                                  |            |           |                |                                        |           |           |                |
|                  | Verify results                                                       |             |                                  |            |           |                |                                        |           |           |                |
|                  | Execute Conversion Process                                           |             |                                  |            |           |                |                                        |           |           |                |
|                  | Resolve any open issues                                              |             |                                  |            |           |                |                                        |           |           |                |
|                  | Verify results                                                       |             |                                  |            |           |                |                                        |           |           |                |
| <b>12</b>        | <b>Project Management</b>                                            |             | <b>99</b>                        | <b>112</b> | <b>41</b> | <b>594</b>     | <b>21</b>                              | <b>21</b> | <b>18</b> | <b>218</b>     |
| 12.1             | Project Controls                                                     |             |                                  |            |           |                |                                        |           |           |                |
|                  |                                                                      | Sum of all  |                                  |            |           |                |                                        |           |           |                |
| 12.1.1           | Set Up Issue Resolution Process                                      | prior tasks | 990                              | 1122.5     | 412.5     | 5940           | 210                                    | 210       | 180       | 2180           |
| 12.1.2           | Set Up Meeting and Status Structure                                  | Percent     | 10%                              | 10%        | 10%       | 10%            | 10%                                    | 10%       | 10%       | 10%            |
| 12.2             | Team Status Management                                               |             |                                  |            |           |                |                                        |           |           |                |
| 12.3             | Issue Management                                                     |             |                                  |            |           |                |                                        |           |           |                |
| 12.4             | Maintain Workplan                                                    |             |                                  |            |           |                |                                        |           |           |                |
| 12.5             | Status Reporting                                                     |             |                                  |            |           |                |                                        |           |           |                |
| 12.6             | Project Communications                                               |             |                                  |            |           |                |                                        |           |           |                |
| 12.7             | Update Business Case and ROI Model                                   |             |                                  |            |           |                |                                        |           |           |                |

**E-Procurement Project  
Detailed Workplan  
Agency Involvement**

| <b>Project Workplan</b> |                       |         | Client Involvement Year 1 (Days) |       |           |                | Client Involvement Ongoing Yrs. (Days) |     |           |                |
|-------------------------|-----------------------|---------|----------------------------------|-------|-----------|----------------|----------------------------------------|-----|-----------|----------------|
|                         |                       |         | DOA/P&C                          | OSC   | ITS / IRM | Other Agencies | DOA/P&C                                | OSC | ITS / IRM | Other Agencies |
| Ref.                    | Segment/Task/Sub-task | Factors | 1,089                            | 1,235 | 454       | 6,534          | 231                                    | 231 | 198       | 2,398          |
|                         |                       |         | 4.5                              | 5.1   | 1.9       | 27.2           | 1.0                                    | 1.0 | 0.8       | 10.0           |

**Appendix A:**  
**Purchasing Data Analysis Reports**

**All Entities**

|                                 |            |
|---------------------------------|------------|
| Data received                   | 115        |
| Contacted and awaiting data     | 13         |
| Unable to provide data          | 15         |
| Not responded                   | 98         |
| <b>Total number of entities</b> | <b>241</b> |

**State Agencies**

|                                       |           |
|---------------------------------------|-----------|
| Data received                         | 49        |
| <b>Total number of state agencies</b> | <b>49</b> |

**Universities**

|                                     |           |
|-------------------------------------|-----------|
| Data received                       | 11        |
| Contacted and awaiting data         | 2         |
| Unable to provide data              | 0         |
| Not responded                       | 4         |
| <b>Total number of universities</b> | <b>17</b> |

**Community Colleges**

|                                           |           |
|-------------------------------------------|-----------|
| Data received                             | 42        |
| Contacted and awaiting data               | 3         |
| Unable to provide data                    | 5         |
| Not responded                             | 8         |
| <b>Total number of community colleges</b> | <b>58</b> |

**LEAs**

|                             |            |
|-----------------------------|------------|
| Data received               | 14         |
| Contacted and awaiting data | 7          |
| Unable to provide data      | 10         |
| Not responded               | 86         |
| <b>Total number of LEAs</b> | <b>117</b> |

**Type of data received/reliability**

|                                                                       |    |
|-----------------------------------------------------------------------|----|
| Complete - reliable information (80%)                                 | 18 |
| Mostly complete - a few services included (65%)                       | 20 |
| Partially complete - Several services included (50%)                  | 55 |
| Incomplete - Numerous services included or other complications (<50%) | 8  |
| Hardcopy/Un-useable files                                             | 14 |

**Comments**

- Many do not use commodity codes
- Some data reflects more than just goods purchased (i.e. Services, Payroll)
- Some have only a portion of their purchased goods procured through PO's and/or electronically recorded
- Several have stated that they do not collect this information electronically and therefore either cannot provide it or only have it in a manual form



## North Carolina PO Spend Totals Summary

|                           | <b>Total</b>                | <b>Adjusted Total***</b>   |
|---------------------------|-----------------------------|----------------------------|
| <b>State Agencies</b>     | \$ 1,949,796,801.55         | \$ 645,898,366.70          |
| <b>Universities</b>       | \$ 2,176,002,172.39         | \$ 375,756,434.86          |
| <b>Community Colleges</b> | \$ 136,269,683.32           | \$ 59,991,100.67           |
| <b>LEAs</b>               | \$ 946,124,226.73           | \$ 238,232,494.98          |
|                           |                             |                            |
| <b>Total:</b>             | <b>\$ 5,208,192,883.99</b>  | <b>\$ 1,319,878,397.20</b> |
|                           |                             |                            |
| <b>Counties*</b>          | \$ 2,676,313,576.00         | \$ 133,815,678.80          |
| <b>Municipalities**</b>   | \$ 3,100,350,614.00         | \$ 155,017,530.70          |
|                           |                             |                            |
| <b>Grand Total</b>        | <b>\$ 10,984,857,073.99</b> | <b>\$ 1,608,711,606.70</b> |

\* Data provided by Vance Holloman, treasurer's office; represents all counties' operating expenditures excluding salaries & wages, capital outlay, and public school funding

\*\* Data provided by Vance Holloman, treasurer's office; represents 529 municipalities' operating expenditures excluding salaries & wages and capital outlay

\*\*\* Adjusted Total determined by applying a data reliability factor to the total dollar amount

**North Carolina Spend Data Collection Results**  
**State Agencies**

| Department                                      | Data Received | Total               | eP Factor | Adjusted Total    | Data Comments                                            |
|-------------------------------------------------|---------------|---------------------|-----------|-------------------|----------------------------------------------------------|
| Department of Transportation                    | Yes           | \$ 1,437,918,788.77 | 20%       | \$ 287,583,757.75 | Countless construction companies for \$100's of millions |
| ADATC-Black Mountain                            | Yes           | \$ 198,878.17       | 70%       | \$ 139,214.72     | Includes some services                                   |
| ADATC-Greenville                                | Yes           | \$ 219,925.10       | 70%       | \$ 153,947.57     | Includes some services                                   |
| Administrative Office of the Courts             | Yes           | \$ 11,700,022.03    | 70%       | \$ 8,190,015.42   | Includes some services                                   |
| Aging                                           | Yes           | \$ 19,551.86        | 70%       | \$ 13,686.30      | Includes some services                                   |
| Black Mountain Center                           | Yes           | \$ 2,217,838.18     | 70%       | \$ 1,552,486.73   | Includes some services                                   |
| Blind Services                                  | Yes           | \$ 529,676.90       | 70%       | \$ 370,773.83     | Includes some services                                   |
| Broughton Hospital                              | Yes           | \$ 3,602,665.31     | 70%       | \$ 2,521,865.72   | Includes some services                                   |
| Caswell Center                                  | Yes           | \$ 3,546,193.05     | 70%       | \$ 2,482,335.14   | Includes some services                                   |
| Cherry Hospital                                 | Yes           | \$ 3,106,532.29     | 70%       | \$ 2,174,572.60   | Includes some services                                   |
| Child Development                               | Yes           | \$ 160,728.32       | 70%       | \$ 112,509.82     | Includes some services                                   |
| Department of Administration                    | Yes           | \$ 27,925,236.88    | 70%       | \$ 19,547,665.82  | Includes some services                                   |
| Department of Agriculture                       | Yes           | \$ 10,603,523.66    | 70%       | \$ 7,422,466.56   | Includes some services                                   |
| Department of Commerce                          | Yes           | \$ 5,715,978.90     | 70%       | \$ 4,001,185.23   | Includes some services                                   |
| Department of Community Colleges                | Yes           | \$ 1,194,602.34     | 70%       | \$ 836,221.64     | Includes some services                                   |
| Department of Correction                        | Yes           | \$ 150,650,604.97   | 70%       | \$ 105,455,423.48 | Includes some services                                   |
| Department of Crime Control & Public Safety     | Yes           | \$ 71,082,761.74    | 70%       | \$ 49,757,933.22  | Includes some services                                   |
| Department of Cultural Resources                | Yes           | \$ 2,058,027.78     | 70%       | \$ 1,440,619.45   | Includes some services                                   |
| Department of Environment and Natural Resources | Yes           | \$ 22,447,347.71    | 70%       | \$ 15,713,143.40  | Includes some services                                   |
| Department of Insurance                         | Yes           | \$ 3,360,169.72     | 70%       | \$ 2,352,118.80   | Includes some services                                   |
| Department of Justice                           | Yes           | \$ 14,040,840.37    | 70%       | \$ 9,828,588.26   | Includes some services                                   |
| Department of Labor                             | Yes           | \$ 2,212,559.00     | 70%       | \$ 1,548,791.30   | Includes some services                                   |
| Department of Public Instruction                | Yes           | \$ 35,796,796.03    | 70%       | \$ 25,057,757.22  | Includes some services                                   |
| Department of Revenue                           | Yes           | \$ 3,998,003.05     | 70%       | \$ 2,798,602.14   | Includes some services                                   |
| Department of State Treasurer                   | Yes           | \$ 3,591,860.59     | 70%       | \$ 2,514,302.41   | Includes some services                                   |
| Department of the Secretary of State            | Yes           | \$ 394,338.40       | 70%       | \$ 276,036.88     | Includes some services                                   |
| DHHS-Central Admin                              | Yes           | \$ 65,554,322.33    | 70%       | \$ 45,888,025.63  | Includes some services                                   |
| Dorethea Dix                                    | Yes           | \$ 3,040,760.73     | 70%       | \$ 2,128,532.51   | Includes some services                                   |
| Health Services                                 | Yes           | \$ 3,587,546.28     | 70%       | \$ 2,511,282.40   | Includes some services                                   |
| Information Technology Services                 | Yes           | \$ 20,295,150.74    | 70%       | \$ 14,206,605.52  | Includes some services                                   |
| Mental Health                                   | Yes           | \$ 16,621.00        | 70%       | \$ 11,634.70      | Includes some services                                   |
| Murdoch Center                                  | Yes           | \$ 4,319,010.83     | 70%       | \$ 3,023,307.58   | Includes some services                                   |
| NCSSM                                           | Yes           | \$ 1,297,024.30     | 70%       | \$ 907,917.01     | Includes some services                                   |

- Totals received from OSC (NCAS) except DOT which reported directly  
11/07/00

**North Carolina Spend Data Collection Results**  
**State Agencies**

| Department                                   | Data Received | Total                      | eP Factor | Adjusted Total           | Data Comments          |
|----------------------------------------------|---------------|----------------------------|-----------|--------------------------|------------------------|
| North Carolina General Assembly              | Yes           | \$ 1,383,279.26            | 70%       | \$ 968,295.48            | Includes some services |
| O'Berry Center                               | Yes           | \$ 1,766,983.25            | 70%       | \$ 1,236,888.28          | Includes some services |
| Office of Administrative Hearings            | Yes           | \$ 113,627.23              | 70%       | \$ 79,539.06             | Includes some services |
| Office of Juvenile Justice                   | Yes           | \$ 5,336,481.54            | 70%       | \$ 3,735,537.08          | Includes some services |
| Office of the Lt. Governor                   | Yes           | \$ 1,007.80                | 70%       | \$ 705.46                | Includes some services |
| Office of the State Auditor                  | Yes           | \$ 1,403,902.92            | 70%       | \$ 982,732.04            | Includes some services |
| Office of the State Controller               | Yes           | \$ 287,381.52              | 70%       | \$ 201,167.06            | Includes some services |
| Services for the Deaf                        | Yes           | \$ 8,304,459.53            | 70%       | \$ 5,813,121.67          | Includes some services |
| Social Services                              | Yes           | \$ 110,000.00              | 70%       | \$ 77,000.00             | Includes some services |
| Special Care Center                          | Yes           | \$ 1,665,142.13            | 70%       | \$ 1,165,599.49          | Includes some services |
| State Board of Elections                     | Yes           | \$ 221,062.09              | 70%       | \$ 154,743.46            | Includes some services |
| State Fair                                   | Yes           | \$ 375,024.99              | 70%       | \$ 262,517.49            | Includes some services |
| Umstead Hospital                             | Yes           | \$ 3,086,664.72            | 70%       | \$ 2,160,665.30          | Includes some services |
| Vocational Rehabilitation                    | Yes           | \$ 2,172,781.78            | 70%       | \$ 1,520,947.25          | Includes some services |
| Western Carolina Center                      | Yes           | \$ 2,315,052.16            | 70%       | \$ 1,620,536.51          | Includes some services |
| Wildlife Resources Commission                | Yes           | \$ 4,850,063.30            | 70%       | \$ 3,395,044.31          | Includes some services |
| <b>49 out of 49 state agencies reporting</b> |               | <b>\$ 1,949,796,801.55</b> |           | <b>\$ 645,898,366.70</b> | <b>Agency Subtotal</b> |

- Totals received from OSC (NCAS) except DOT which reported directly  
11/07/00

## North Carolina Spend Data Collection Results Universities

| Department                                 | Data Received | Total                   | eP Factor | Adjusted Total        | Attendance | Data Comments                                                                            |
|--------------------------------------------|---------------|-------------------------|-----------|-----------------------|------------|------------------------------------------------------------------------------------------|
| NC School of the Arts                      | Yes           | \$ 5,021,644            | 15%       | \$ 753,247            | 794        |                                                                                          |
| University of NC at Chapel Hill            | Yes           | \$ 869,036,314          | 18%       | \$ 156,426,537        | 24,044     | There are major services included totaling well over                                     |
| University of NC at Asheville              | Yes           | \$ 3,734,404            | 15%       | \$ 560,161            | 3,239      | A few services                                                                           |
| Appalachian State University               | Yes           | \$ 17,777,674           | 15%       | \$ 2,666,651          | 12,500     | A few services                                                                           |
| University of NC at Greensboro             | Yes           | \$ 104,495,039          | 15%       | \$ 15,674,256         | 12,998     | Total does not match those reported in email of \$27 million; Numerous services included |
| University of NC at Charlotte              | Yes           | \$ 27,077,381           | 15%       | \$ 4,061,607          | 16,844     | A few services                                                                           |
| Fayetteville State University              | Yes           | \$ 3,782,142            | 15%       | \$ 567,321            | 4,347      | A few services are included, but only a few vendors (23) are even reported               |
| University of NC at Wilmington             | Yes           | \$ 18,199,136           | 15%       | \$ 2,729,870          | 9,757      | A few services included                                                                  |
| University of NC at Pembroke               | Yes           | \$ 10,087,366           | 15%       | \$ 1,513,105          | 2,966      | Received                                                                                 |
| North Carolina State University            | Yes           | \$ 973,238,264          | 18%       | \$ 175,182,888        | 26,927     | Received                                                                                 |
| North Carolina A&T State University        | Yes           | \$ 25,310,242           | 15%       | \$ 3,796,536          | 7,442      | Received                                                                                 |
| Elizabeth City State University            | No            | \$ 6,655,757            | 10%       | \$ 665,576            | 1,957      | Contacted but not received                                                               |
| Winston-Salem University                   | No            | \$ 9,464,983            | 10%       | \$ 946,498            | 2,783      | No Response                                                                              |
| North Carolina Central University          | No            | \$ 18,504,841           | 10%       | \$ 1,850,484          | 5,441      | No Response                                                                              |
| East Carolina University                   | No            | \$ 62,010,433           | 10%       | \$ 6,201,043          | 18,233     | Unreadable data                                                                          |
| Western Carolina University                | No            | \$ 21,606,553           | 10%       | \$ 2,160,655          | 6,353      | Unreadable data                                                                          |
| UNC-General Administration                 | No            |                         |           |                       |            | No Response                                                                              |
| <b>11 out of 17 universities reporting</b> |               | <b>\$ 2,176,002,172</b> |           | <b>\$ 375,756,435</b> |            | <b>University Subtotal</b>                                                               |

- Universities with Data Received column "Yes" reported totals directly
- Other totals are extrapolated based on average totals reported by number of students

## North Carolina Spend Data Collection Results Community Colleges

| Department                               | Data Received | Total           | eP Factor | Adjusted Total  | Attendance | Data Comments                         |
|------------------------------------------|---------------|-----------------|-----------|-----------------|------------|---------------------------------------|
| Bladen Community College                 | Yes           | \$ 986,751.33   | 70%       | \$ 690,725.93   | 4,673      |                                       |
| Piedmont Community College               | Yes           | \$ 1,307,880.02 | 70%       | \$ 915,516.01   | 7,328      |                                       |
| Alamance Community College               | Yes           | \$ 1,292,200.83 | 70%       | \$ 904,540.58   | 14,035     |                                       |
| Durham Technical Community College       | Yes           | \$ 3,211,157.99 | 60%       | \$ 1,926,694.79 | 18,438     | A few services included               |
| Wake Technical Community College         | Yes           | \$ 7,384,236.39 | 50%       | \$ 3,692,118.20 | 46,135     | Several services including power      |
| Brunswick Community College              | Yes           | \$ 1,813,784.83 | 70%       | \$ 1,269,649.38 | 6,809      |                                       |
| Southeastern Community College           | Yes           | \$ 3,196,038.95 | 60%       | \$ 1,917,623.37 | 8,422      | A few services included               |
| Wilkes Community College                 | Yes           | \$ 1,420,974.22 | 70%       | \$ 994,681.95   | 11,316     |                                       |
| Robeson Community College                | Yes           | \$ 1,722,496.44 | 60%       | \$ 1,033,497.86 | 11,473     | A few services included               |
| Mayland Community College                | Yes           | \$ 383,951.11   | 70%       | \$ 268,765.78   | 5,678      |                                       |
| Haywood Community College                | Yes           | \$ 1,975,137.72 | 60%       | \$ 1,185,082.63 | 7,559      |                                       |
| Roanoke-Chowan Community College         | Yes           | \$ 695,498.26   | 70%       | \$ 486,848.78   | 3,669      |                                       |
| Caldwell Community College & Tech. Inst. | Yes           | \$ 7,128,978.26 | 50%       | \$ 3,564,489.13 | 13,927     | Several services including power, gas |
| Richmond Community College               | Yes           | \$ 1,286,753.58 | 60%       | \$ 772,052.15   | 7,828      | A few services included, power        |
| Forsyth Technical Community College      | Yes           | \$ 2,860,159.71 | 70%       | \$ 2,002,111.80 | 29,127     |                                       |
| Nash Community College                   | Yes           | \$ 1,125,698.95 | 70%       | \$ 787,989.27   | 10,709     |                                       |
| Randolph Community College               | Yes           | \$ 1,034,926.13 | 70%       | \$ 724,448.29   | 10,793     |                                       |
| Tri-County Community College             | Yes           | \$ 1,029,368.10 | 70%       | \$ 720,557.67   | 4,862      |                                       |
| Johnston Community College               | Yes           | \$ 2,651,789.98 | 60%       | \$ 1,591,073.99 | 13,091     | A few services included               |
| Coastal Carolina Community College       | Yes           | \$ 2,800,630.25 | 60%       | \$ 1,680,378.15 | 22,355     |                                       |
| Vance-Granville Community College        | Yes           | \$ 2,358,509.19 | 60%       | \$ 1,415,105.51 | 16,100     | Total does not match \$2,358,719.64   |
| College of The Albemarle                 | Yes           | \$ 873,888.44   | 70%       | \$ 611,721.91   | 9,444      |                                       |
| Halifax Community College                | Yes           | \$ 488,510.63   | 70%       | \$ 341,957.44   | 7,722      |                                       |
| Cape Fear Community College              | Yes           | \$ 6,072,733.01 | 50%       | \$ 3,036,366.51 | 22,108     | Several Services                      |
| James Sprunt Community College           | Yes           | \$ 949,307.28   | 60%       | \$ 569,584.37   | 5,942      | Possible minor services               |
| Southwestern Community College           | Yes           | \$ 1,261,362.25 | 70%       | \$ 882,953.58   | 9,944      |                                       |
| Gaston College                           | Yes           | \$ 1,935,704.42 | 70%       | \$ 1,354,993.09 | 18,972     |                                       |
| Sandhills Community College              | Yes           | \$ 2,006,811.93 | 70%       | \$ 1,404,768.35 | 14,757     |                                       |
| Pitt Community College                   | Yes           | \$ 5,754,987.30 | 50%       | \$ 2,877,493.65 | 16,288     | Several services                      |
| Wayne Community College                  | Yes           | \$ 1,426,040.87 | 70%       | \$ 998,228.61   | 13,400     |                                       |
| Mitchell Community College               | Yes           | \$ 1,335,813.58 | 60%       | \$ 801,488.15   | 9,124      | A few services                        |

- Community Colleges with Data Received column "Yes" reported totals directly
- Other totals are extrapolated based on average totals reported by number of students or average total if no attendance data is available

11/07/00

## North Carolina Spend Data Collection Results Community Colleges

| Department                                       | Data Received | Total                    | eP Factor | Adjusted Total          | Attendance | Data Comments                       |
|--------------------------------------------------|---------------|--------------------------|-----------|-------------------------|------------|-------------------------------------|
| Davidson County Community College                | Yes           | \$ 3,801,109.78          | 60%       | \$ 2,280,665.87         | 11,826     | A few services                      |
| Rockingham Community College                     | Yes           | \$ 2,466,132.12          | 60%       | \$ 1,479,679.27         | 11,354     |                                     |
| Central Carolina Community College               | Yes           | \$ 1,298,577.07          | 60%       | \$ 779,146.24           | 17,122     | Contacted but not received          |
| Stanly Community College                         | No            | \$ 1,052,099.90          | 25%       | \$ 263,024.98           | 6,427      | Contacted but not received          |
| Montgomery Community College                     | No            | \$ 592,757.70            | 25%       | \$ 148,189.43           | 3,621      | Contacted but not received          |
| Catawba Valley Community College                 | No            | \$ 3,121,922.70          | 25%       | \$ 780,480.68           | 19,071     | Hardcopy                            |
| Edgecombe Community College                      | No            | \$ 1,272,112.70          | 25%       | \$ 318,028.18           | 7,771      | Hardcopy                            |
| Rowan-Cabarrus Community College                 | No            | \$ 3,247,808.00          | 25%       | \$ 811,952.00           | 19,840     | Hardcopy                            |
| Martin Community College                         | No            | \$ 757,603.60            | 25%       | \$ 189,400.90           | 4,628      | Hardcopy                            |
| Sampson Community College                        | No            | \$ 1,166,689.90          | 25%       | \$ 291,672.48           | 7,127      | Hardcopy                            |
| Central Piedmont Community College               | No            | \$ 9,706,100.40          | 25%       | \$ 2,426,525.10         | 59,292     | Hardcopy                            |
| Fayetteville Technical Community College         | No            | \$ 6,429,972.30          | 25%       | \$ 1,607,493.08         | 39,279     | Hardcopy                            |
| Isothermal Community College                     | No            | \$ 1,543,691.00          | 25%       | \$ 385,922.75           | 9,430      | No Response                         |
| Asheville-Buncombe Tech Community                | No            | \$ 4,176,150.70          | 25%       | \$ 1,044,037.68         | 25,511     | No Response                         |
| Beaufort County Community College                | No            | \$ 1,171,600.90          | 25%       | \$ 292,900.23           | 7,157      | No Response                         |
| NC Center for Applied Textile Technology         | No            | \$ 2,349,477.30          | 10%       | \$ 234,947.73           |            | No Response - no attendance numbers |
| McDowell Technical Community College             | No            | \$ 1,173,565.30          | 25%       | \$ 293,391.33           | 7,169      | No Response                         |
| Carteret Community College                       | No            | \$ 1,080,747.40          | 25%       | \$ 270,186.85           | 6,602      | No Response                         |
| Anson Community College                          | No            | \$ 2,349,477.30          | 10%       | \$ 234,947.73           |            | No Response - no attendance numbers |
| Cleveland Community College                      | No            | \$ 1,325,970.00          | 25%       | \$ 331,492.50           | 8,100      | No Response                         |
| Blue Ridge Community College                     | No            | \$ 2,259,387.40          | 25%       | \$ 564,846.85           | 13,802     | Unable to provide                   |
| Western Piedmont Community College               | No            | \$ 2,331,579.10          | 25%       | \$ 582,894.78           | 14,243     | Unable to provide                   |
| Pamlico Community College                        | No            | \$ 296,297.00            | 25%       | \$ 74,074.25            | 1,810      | Unable to provide                   |
| Wilson Technical Community College               | No            | \$ 1,786,785.50          | 25%       | \$ 446,696.38           | 10,915     | Unable to provide                   |
| Surry Community College                          | No            | \$ 2,086,192.80          | 25%       | \$ 521,548.20           | 12,744     | Unable to provide                   |
| Guilford Technical Community College             | No            | \$ 5,920,046.80          | 25%       | \$ 1,480,011.70         | 36,164     | Unreadable data                     |
| Craven Community College                         | No            | \$ 1,733,746.70          | 25%       | \$ 433,436.68           | 10,591     | Unreadable data                     |
| <b>33 out of 58 community colleges reporting</b> |               | <b>\$ 136,269,683.32</b> |           | <b>\$ 59,991,100.67</b> |            | <b>Community Colleges Subtotal</b>  |

- Community Colleges with Data Received column "Yes" reported totals directly
- Other totals are extrapolated based on average totals reported by number of students or average total if no attendance data is available

11/07/00

## North Carolina Spend Data Collection Results LEAs

| Department                | Data Received | Total            | eP Factor | Adjusted Total   | Attendance | Data Comments                                                                                    |
|---------------------------|---------------|------------------|-----------|------------------|------------|--------------------------------------------------------------------------------------------------|
| 230 Cleveland             | Yes           | \$ 2,663,184.10  | 65%       | \$ 1,731,069.67  | 9,370      | A few services                                                                                   |
| 320 Durham                | Yes           | \$ 3,316,593.43  | 65%       | \$ 2,155,785.73  | 29,093     | A few services                                                                                   |
| 010 Alamance              | Yes           | \$ 16,129,790.02 | 10%       | \$ 1,612,979.00  | 20,037     | Almost every vendor is listed several times with the same payment, just different vendor numbers |
| 050 Ashe                  | Yes           | \$ 978,365.00    | 65%       | \$ 635,937.25    | 3,198      | Limited list of items, yet seems somewhat thorough                                               |
| 410 Guilford              | Yes           | \$ 94,009,524.26 | 25%       | \$ 23,502,381.07 | 62,072     | Lots of construction and services for several million dollars                                    |
| 600 Charlotte-Mecklenburg | Yes           | \$229,747,190.40 | 25%       | \$ 57,436,797.60 | 100,368    | Lots of construction and services for several million dollars                                    |
| 995 Yancey                | Yes           | \$ 546,998.00    | 50%       | \$ 273,499.00    | 2,483      | Only 11 items listed, may be incomplete (larger)                                                 |
| 530 Lee                   | Yes           | \$ 92,842.00     | 25%       | \$ 23,210.50     | 8,692      | Only 3 items listed, may be incomplete (larger)                                                  |
| 480 Hyde                  | Yes           | \$ 824,915.00    | 50%       | \$ 412,457.50    | 727        | Only 9 items listed, may be incomplete (larger)                                                  |
| 132 Kannapolis City       | Yes           | \$ 3,217,845.63  | 50%       | \$ 1,608,922.82  | 4,159      | Several services including utilities, water, etc..                                               |
| 181 Hickory City          | Yes           | \$ 422,689.17    | 70%       | \$ 295,882.42    | 4,440      |                                                                                                  |
| 300 Davie                 | No            | \$ 3,244,145.84  | 25%       | \$ 811,036.46    | 5,564      | Contacted but not received                                                                       |
| 510 Johnston              | No            | \$ 11,850,694.50 | 25%       | \$ 2,962,673.63  | 20,325     | Contacted but not received                                                                       |
| 580 Martin                | No            | \$ 2,859,326.24  | 25%       | \$ 714,831.56    | 4,904      | Contacted but not received                                                                       |
| 861 Elkin City            | No            | \$ 627,372.56    | 25%       | \$ 156,843.14    | 1,076      | Contacted but not received                                                                       |
| 920 Wake                  | No            | \$ 55,401,195.08 | 25%       | \$ 13,850,298.77 | 95,018     | Contacted but not received                                                                       |
| 960 Wayne                 | No            | \$ 11,301,451.98 | 25%       | \$ 2,825,363.00  | 19,383     | Contacted but not received                                                                       |
| 980 Wilson                | No            | \$ 7,102,253.86  | 25%       | \$ 1,775,563.47  | 12,181     | Contacted but not received                                                                       |
| 250 Craven                | No            | \$ 8,646,196.74  | 25%       | \$ 2,161,549.19  | 14,829     | Hardcopy                                                                                         |
| 490 Iredell-Statesville   | No            | \$ 9,692,206.38  | 25%       | \$ 2,423,051.60  | 16,623     | Hardcopy                                                                                         |
| 820 Sampson               | No            | \$ 4,556,613.90  | 25%       | \$ 1,139,153.48  | 7,815      | Hardcopy                                                                                         |
| 030 Alleghany             | No            | \$ 835,524.98    | 25%       | \$ 208,881.25    | 1,433      | No Response                                                                                      |
| 040 Anson                 | No            | \$ 2,647,092.40  | 25%       | \$ 661,773.10    | 4,540      | No Response                                                                                      |
| 060 Avery                 | No            | \$ 1,398,760.94  | 25%       | \$ 349,690.24    | 2,399      | No Response                                                                                      |
| 080 Bertie                | No            | \$ 2,150,908.34  | 25%       | \$ 537,727.09    | 3,689      | No Response                                                                                      |
| 090 Bladen                | No            | \$ 3,309,448.56  | 25%       | \$ 827,362.14    | 5,676      | No Response                                                                                      |
| 100 Brunswick             | No            | \$ 5,918,059.00  | 25%       | \$ 1,479,514.75  | 10,150     | No Response                                                                                      |
| 110 Buncombe              | No            | \$ 14,465,718.60 | 25%       | \$ 3,616,429.65  | 24,810     | No Response                                                                                      |
| 111 Asheville City        | No            | \$ 2,381,217.04  | 25%       | \$ 595,304.26    | 4,084      | No Response                                                                                      |
| 120 Burke                 | No            | \$ 8,345,337.78  | 25%       | \$ 2,086,334.45  | 14,313     | No Response                                                                                      |
| 130 Cabarrus              | No            | \$ 10,770,284.32 | 25%       | \$ 2,692,571.08  | 18,472     | No Response                                                                                      |
| 140 Caldwell              | No            | \$ 7,284,168.58  | 25%       | \$ 1,821,042.15  | 12,493     | No Response                                                                                      |

- LEAs with Data Received column "Yes" reported totals directly
- Other totals are extrapolated based on average totals reported by number of students



## North Carolina Spend Data Collection Results

### LEAs

| Department              | Data Received | Total            | eP Factor | Adjusted Total  | Attendance | Data Comments |
|-------------------------|---------------|------------------|-----------|-----------------|------------|---------------|
| 150 Camden              | No            | \$ 755,062.70    | 25%       | \$ 188,765.68   | 1,295      | No Response   |
| 160 Carteret            | No            | \$ 4,886,625.86  | 25%       | \$ 1,221,656.47 | 8,381      | No Response   |
| 170 Caswell             | No            | \$ 2,094,351.52  | 25%       | \$ 523,587.88   | 3,592      | No Response   |
| 180 Catawba             | No            | \$ 9,243,833.24  | 25%       | \$ 2,310,958.31 | 15,854     | No Response   |
| 182 Newton-Conover      | No            | \$ 1,590,587.68  | 25%       | \$ 397,646.92   | 2,728      | No Response   |
| 190 Chatham             | No            | \$ 4,034,192.14  | 25%       | \$ 1,008,548.04 | 6,919      | No Response   |
| 210 Chowan              | No            | \$ 1,482,138.52  | 25%       | \$ 370,534.63   | 2,542      | No Response   |
| 220 Clay                | No            | \$ 736,987.84    | 25%       | \$ 184,246.96   | 1,264      | No Response   |
| 232 Shelby City         | No            | \$ 1,911,853.74  | 25%       | \$ 477,963.44   | 3,279      | No Response   |
| 260 Cumberland          | No            | \$ 29,910,978.00 | 25%       | \$ 7,477,744.50 | 51,300     | No Response   |
| 270 Currituck           | No            | \$ 1,840,720.42  | 25%       | \$ 460,180.11   | 3,157      | No Response   |
| 280 Dare                | No            | \$ 2,691,988.02  | 25%       | \$ 672,997.01   | 4,617      | No Response   |
| 290 Davidson            | No            | \$ 10,967,358.60 | 25%       | \$ 2,741,839.65 | 18,810     | No Response   |
| 291 Lexington City      | No            | \$ 1,879,202.38  | 25%       | \$ 469,800.60   | 3,223      | No Response   |
| 292 Thomasville City    | No            | \$ 1,346,868.60  | 25%       | \$ 336,717.15   | 2,310      | No Response   |
| 310 Duplin              | No            | \$ 4,997,990.32  | 25%       | \$ 1,249,497.58 | 8,572      | No Response   |
| 330 Edgecombe           | No            | \$ 4,550,783.30  | 25%       | \$ 1,137,695.83 | 7,805      | No Response   |
| 340 Forsyth             | No            | \$ 25,324,628.04 | 25%       | \$ 6,331,157.01 | 43,434     | No Response   |
| 360 Gaston              | No            | \$ 17,734,936.02 | 25%       | \$ 4,433,734.01 | 30,417     | No Response   |
| 370 Gates               | No            | \$ 1,191,774.64  | 25%       | \$ 297,943.66   | 2,044      | No Response   |
| 380 Graham              | No            | \$ 699,088.94    | 25%       | \$ 174,772.24   | 1,199      | No Response   |
| 400 Greene              | No            | \$ 1,705,450.50  | 25%       | \$ 426,362.63   | 2,925      | No Response   |
| 420 Halifax             | No            | \$ 3,601,561.62  | 25%       | \$ 900,390.41   | 6,177      | No Response   |
| 421 Roanoke Rapids City | No            | \$ 1,785,329.72  | 25%       | \$ 446,332.43   | 3,062      | No Response   |
| 430 Harnett             | No            | \$ 9,324,295.52  | 25%       | \$ 2,331,073.88 | 15,992     | No Response   |
| 440 Haywood             | No            | \$ 4,501,223.20  | 25%       | \$ 1,125,305.80 | 7,720      | No Response   |
| 450 Henderson           | No            | \$ 6,694,111.86  | 25%       | \$ 1,673,527.97 | 11,481     | No Response   |
| 460 Hertford            | No            | \$ 2,357,894.64  | 25%       | \$ 589,473.66   | 4,044      | No Response   |
| 470 Hoke                | No            | \$ 3,588,151.24  | 25%       | \$ 897,037.81   | 6,154      | No Response   |
| 491 Mooresville City    | No            | \$ 2,251,777.72  | 25%       | \$ 562,944.43   | 3,862      | No Response   |
| 500 Jackson             | No            | \$ 2,058,784.86  | 25%       | \$ 514,696.22   | 3,531      | No Response   |
| 520 Jones               | No            | \$ 888,000.38    | 25%       | \$ 222,000.10   | 1,523      | No Response   |
| 540 Lenoir              | No            | \$ 5,995,605.98  | 25%       | \$ 1,498,901.50 | 10,283     | No Response   |
| 550 Lincoln             | No            | \$ 6,088,312.52  | 25%       | \$ 1,522,078.13 | 10,442     | No Response   |
| 560 Macon               | No            | \$ 2,374,220.32  | 25%       | \$ 593,555.08   | 4,072      | No Response   |

- LEAs with Data Received column "Yes" reported totals directly
- Other totals are extrapolated based on average totals reported by number of students



## North Carolina Spend Data Collection Results

### LEAs

| Department           | Data Received | Total            | eP Factor | Adjusted Total  | Attendance | Data Comments |
|----------------------|---------------|------------------|-----------|-----------------|------------|---------------|
| 570 Madison          | No            | \$ 1,479,223.22  | 25%       | \$ 369,805.81   | 2,537      | No Response   |
| 590 McDowell         | No            | \$ 3,742,079.08  | 25%       | \$ 935,519.77   | 6,418      | No Response   |
| 610 Mitchell         | No            | \$ 1,392,347.28  | 25%       | \$ 348,086.82   | 2,388      | No Response   |
| 620 Montgomery       | No            | \$ 2,608,027.38  | 25%       | \$ 652,006.85   | 4,473      | No Response   |
| 630 Moore            | No            | \$ 6,405,497.16  | 25%       | \$ 1,601,374.29 | 10,986     | No Response   |
| 640 Nash-Rocky Mount | No            | \$ 10,366,223.74 | 25%       | \$ 2,591,555.94 | 17,779     | No Response   |
| 650 New Hanover      | No            | \$ 12,499,640.28 | 25%       | \$ 3,124,910.07 | 21,438     | No Response   |
| 660 Northampton      | No            | \$ 2,205,132.92  | 25%       | \$ 551,283.23   | 3,782      | No Response   |
| 670 Onslow           | No            | \$ 12,239,595.52 | 25%       | \$ 3,059,898.88 | 20,992     | No Response   |
| 680 Orange           | No            | \$ 3,625,467.08  | 25%       | \$ 906,366.77   | 6,218      | No Response   |
| 681 Chapel Hill City | No            | \$ 5,214,305.58  | 25%       | \$ 1,303,576.40 | 8,943      | No Response   |
| 690 Pamlico          | No            | \$ 1,068,748.98  | 25%       | \$ 267,187.25   | 1,833      | No Response   |
| 700 Pasquotank       | No            | \$ 3,531,594.42  | 25%       | \$ 882,898.61   | 6,057      | No Response   |
| 710 Pender           | No            | \$ 3,764,818.42  | 25%       | \$ 941,204.61   | 6,457      | No Response   |
| 720 Perquimans       | No            | \$ 1,043,094.34  | 25%       | \$ 260,773.59   | 1,789      | No Response   |
| 730 Person           | No            | \$ 3,428,975.86  | 25%       | \$ 857,243.97   | 5,881      | No Response   |
| 740 Pitt             | No            | \$ 11,613,389.08 | 25%       | \$ 2,903,347.27 | 19,918     | No Response   |
| 750 Polk             | No            | \$ 1,344,536.36  | 25%       | \$ 336,134.09   | 2,306      | No Response   |
| 760 Randolph         | No            | \$ 9,738,268.12  | 25%       | \$ 2,434,567.03 | 16,702     | No Response   |
| 761 Asheboro City    | No            | \$ 2,474,506.64  | 25%       | \$ 618,626.66   | 4,244      | No Response   |
| 770 Richmond         | No            | \$ 4,861,554.28  | 25%       | \$ 1,215,388.57 | 8,338      | No Response   |
| 780 Robeson          | No            | \$ 13,956,707.22 | 25%       | \$ 3,489,176.81 | 23,937     | No Response   |
| 790 Rockingham       | No            | \$ 14,325,784.20 | 25%       | \$ 3,581,446.05 | 24,570     | No Response   |
| 800 Rowan            | No            | \$ 11,714,841.52 | 25%       | \$ 2,928,710.38 | 20,092     | No Response   |
| 810 Rutherford       | No            | \$ 5,873,163.38  | 25%       | \$ 1,468,290.85 | 10,073     | No Response   |
| 821 Clinton City     | No            | \$ 1,489,135.24  | 25%       | \$ 372,283.81   | 2,554      | No Response   |
| 830 Scotland         | No            | \$ 4,078,504.70  | 25%       | \$ 1,019,626.18 | 6,995      | No Response   |
| 840 Stanly           | No            | \$ 5,923,306.54  | 25%       | \$ 1,480,826.64 | 10,159     | No Response   |
| 850 Stokes           | No            | \$ 4,209,693.20  | 25%       | \$ 1,052,423.30 | 7,220      | No Response   |
| 860 Surry            | No            | \$ 4,817,824.78  | 25%       | \$ 1,204,456.20 | 8,263      | No Response   |
| 870 Swain            | No            | \$ 999,947.90    | 25%       | \$ 249,986.98   | 1,715      | No Response   |
| 880 Transylvania     | No            | \$ 2,277,432.36  | 25%       | \$ 569,358.09   | 3,906      | No Response   |
| 890 Tyrrell          | No            | \$ 452,454.56    | 25%       | \$ 113,113.64   | 776        | No Response   |
| 900 Union            | No            | \$ 12,693,216.20 | 25%       | \$ 3,173,304.05 | 21,770     | No Response   |
| 910 Vance            | No            | \$ 4,589,265.26  | 25%       | \$ 1,147,316.32 | 7,871      | No Response   |

- LEAs with Data Received column "Yes" reported totals directly
- Other totals are extrapolated based on average totals reported by number of students

**North Carolina Spend Data Collection Results**  
**LEAs**

| Department                          | Data Received | Total                   | eP Factor | Adjusted Total          | Attendance | Data Comments       |
|-------------------------------------|---------------|-------------------------|-----------|-------------------------|------------|---------------------|
| 930 Warren                          | No            | \$ 1,896,111.12         | 25%       | \$ 474,027.78           | 3,252      | No Response         |
| 940 Washington                      | No            | \$ 1,415,086.62         | 25%       | \$ 353,771.66           | 2,427      | No Response         |
| 950 Watauga                         | No            | \$ 2,845,915.86         | 25%       | \$ 711,478.97           | 4,881      | No Response         |
| 970 Wilkes                          | No            | \$ 5,804,362.30         | 25%       | \$ 1,451,090.58         | 9,955      | No Response         |
| 990 Yadkin                          | No            | \$ 3,417,314.66         | 25%       | \$ 854,328.67           | 5,861      | No Response         |
| 020 Alexander                       | No            | \$ 3,124,035.48         | 25%       | \$ 781,008.87           | 5,358      | Unable to provide   |
| 070 Beaufort                        | No            | \$ 4,340,298.64         | 25%       | \$ 1,085,074.66         | 7,444      | Unable to provide   |
| 200 Cherokee                        | No            | \$ 2,042,459.18         | 25%       | \$ 510,614.80           | 3,503      | Unable to provide   |
| 231 Kings Mountain                  | No            | \$ 2,609,193.50         | 25%       | \$ 652,298.38           | 4,475      | Unable to provide   |
| 240 Columbus                        | No            | \$ 4,274,412.86         | 25%       | \$ 1,068,603.22         | 7,331      | Unable to provide   |
| 241 Whiteville City                 | No            | \$ 1,617,991.50         | 25%       | \$ 404,497.88           | 2,775      | Unable to provide   |
| 350 Franklin                        | No            | \$ 4,377,614.48         | 25%       | \$ 1,094,403.62         | 7,508      | Unable to provide   |
| 390 Granville                       | No            | \$ 4,635,910.06         | 25%       | \$ 1,158,977.52         | 7,951      | Unable to provide   |
| 422 Weldon City                     | No            | \$ 674,017.36           | 25%       | \$ 168,504.34           | 1,156      | Unable to provide   |
| 862 Mount Airy City                 | No            | \$ 1,176,615.08         | 25%       | \$ 294,153.77           | 2,018      | Unable to provide   |
| <b>11 out of 117 LEAs reporting</b> |               | <b>\$946,124,226.73</b> |           | <b>\$238,232,494.98</b> |            | <b>LEA Subtotal</b> |

- LEAs with Data Received column "Yes" reported totals directly  
- Other totals are extrapolated based on average totals reported by number of students  
11/07/00

**Appendix B:**  
**NCAS Purchasing by Commodity**

NCAS Purchases by Commodity  
FY00

| Commodity Code | Commodity Description                                       | PO Lines | PO Totals     |
|----------------|-------------------------------------------------------------|----------|---------------|
| 5              | ABRASIVES                                                   | 92       | \$ 33,601     |
| 10             | ACOUSTICAL TILE, INSULATING MATERIALS AND SUPPLIES          | 1,017    | \$ 389,684    |
| 15             | COPYING AND DUPLICATING CHEMICALS & SUPPLIES (EXCEPT PAPER) | 1,887    | \$ 1,085,875  |
| 19             | AGRICULTURAL CROPS & GRAINS                                 | 79       | \$ 109,365    |
| 20             | AGRICULTURAL FARM EQUIPMENT AND ACCESSORIES                 | 657      | \$ 1,841,593  |
| 22             | AGRICULTURAL EQUIPMENT & ACCESSORY PARTS                    | 575      | \$ 248,705    |
| 25             | AIR COMPRESSORS AND ACCESSORIES                             | 221      | \$ 99,974     |
| 31             | AIR CONDITIONING, HEATING & VENTILATING EQUIPMENT, ETC.     | 1,751    | \$ 1,628,521  |
| 35             | AIRCRAFT & AIRPORT EQUIPMENT, PARTS & SUPPLIES              | 169      | \$ 980,777    |
| 37             | AMUSEMENT, DECORATIONS, ENTERTAINMENT, TOYS, ETC.           | 2,060    | \$ 773,082    |
| 40             | ANIMALS, BIRDS, MARINE LIFE & POULTRY (LIVE)                | 111      | \$ 124,412    |
| 45             | HOUSEHOLD APPLIANCES AND EQUIPMENT                          | 1,082    | \$ 603,083    |
| 50             | ART EQUIPMENT & SUPPLIES                                    | 613      | \$ 65,140     |
| 52             | ART OBJECTS                                                 | 325      | \$ 118,627    |
| 55             | AUTOMOTIVE ACCESSORIES FOR AUTOMOBILES, BUSES, TRUCKS, ETC. | 1,093    | \$ 2,632,261  |
| 60             | AUTOMOTIVE MAINTENANCE ITEMS & REPAIR/REPLACEMENT PARTS     | 3,454    | \$ 3,081,344  |
| 65             | AUTOMOTIVE BODIES, ACCESSORIES & PARTS                      | 237      | \$ 11,864,666 |
| 70             | AUTOMOTIVE VEHICLES & RELATED TRANSPORTATION EQUIPMENT      | 1,153    | \$ 95,398,138 |
| 75             | AUTOMOTIVE SHOP EQUIPMENT AND SUPPLIES                      | 1,383    | \$ 604,252    |
| 80             | BADGES, EMBLEMS, NAME TAGS AND PLATES, JEWELRY, ETC.        | 4,559    | \$ 651,569    |
| 85             | BAGS, BAGGING, TIES AND EROSION CONTROL EQUIPMENT           | 355      | \$ 382,726    |
| 90             | COMMERCIAL BAKERY EQUIPMENT                                 | 55       | \$ 349,569    |
| 95             | BARBER AND BEAUTY SHOP EQUIPMENT AND SUPPLIES               | 891      | \$ 110,434    |
| 100            | BARRELS, DRUMS, KEGS AND PAIL TYPE CONTAINERS               | 590      | \$ 804,952    |
| 105            | BEARINGS (EXCEPT WHEEL BEARINGS & SEALS - SEE CLASS 060)    | 148      | \$ 25,992     |
| 110            | BELTS & BELTING: CONVEYOR, ELEVATOR, POWER TRANS & V-BELTS  | 153      | \$ 9,886      |

NCAS Purchases by Commodity  
FY00

| Commodity Code | Commodity Description                                          | PO Lines | PO Totals     |
|----------------|----------------------------------------------------------------|----------|---------------|
| 115            | RESEARCH BIOCHEMICALS                                          | 327      | \$ 479,349    |
| 120            | BOATS, MOTORS AND MARINE & WILDLIFE SUPPLIES                   | 634      | \$ 1,481,835  |
| 125            | BOOKBINDING SUPPLIES                                           | 189      | \$ 45,461     |
| 135            | BRICKS & OTHER CLAY PRODUCTS, REFRACT MAT., AND STONE PRODS    | 114      | \$ 100,870    |
| 140            | BROOM, BRUSH & MOP MANUFACTURING MACHINERY & SUPPLIES          | 109      | \$ 21,269     |
| 145            | BRUSHES (NOT OTHERWISE CLASSIFIED)                             | 589      | \$ 116,998    |
| 150            | BUILDERS' SUPPLIES                                             | 680      | \$ 506,868    |
| 155            | BUILDINGS & STRUCTURES: FABRICATED & PREFABRICATED             | 191      | \$ 445,496    |
| 160            | BUTCHER SHOP AND MEAT PROCESSING EQUIPMENT                     | 151      | \$ 31,083     |
| 165            | COMMERCIAL CAFETERIA & KITCHEN EQUIPMENT                       | 1,022    | \$ 1,020,245  |
| 175            | CHEMICAL LABORATORY EQUIPMENT AND SUPPLIES                     | 6,449    | \$ 3,431,846  |
| 180            | CHEMICALS FOR JANITORIAL & LAUNDRY PRODUCTS MANUFACT           | 239      | \$ 1,393,119  |
| 190            | COMMERCIAL CHEMICALS AND SOLVENTS (IN BULK)                    | 298      | \$ 198,715    |
| 192            | CLEANING COMPOSITIONS, DETERGENTS, SOLVENTS & STRIPPERS        | 56       | \$ 17,124     |
| 193            | CLINICAL LABORATORY REAGENTS & TESTS                           | 745      | \$ 1,811,246  |
| 195            | CLOCKS, TIMERS, WATCHES & WATCHMAKERS TOOLS & EQUIP            | 181      | \$ 79,029     |
| 200            | CLOTHING, APPAREL, UNIFORMS & ACCESSORIES                      | 4,151    | \$ 8,435,422  |
| 201            | CLOTHING, ACCESSORIES                                          | 2,042    | \$ 2,561,816  |
| 204            | COMPUTER HARDWARE & PERIPHERALS FOR MICROCOMPUTERS             | 7,456    | \$ 28,885,749 |
| 206            | COMPUTER HARDWARE & PERIPHERALS FOR MINI & MAINFRAME COMPUTERS | 1,439    | \$ 6,470,450  |
| 207            | COMPUTER ACCESSORIES & SUPPLIES                                | 4,762    | \$ 2,152,916  |
| 208            | COMPUTER SOFTWARE (PREPROGRAMMED) FOR MICROCOMPUTERS           | 1,983    | \$ 4,179,161  |
| 209            | COMPUTER SOFTWARE (PREPROGRAMMED) FOR MINI & MAINFRAME COMP    | 360      | \$ 1,926,442  |
| 210            | CONCRETE & METAL CULVERTS, PILINGS, ETC.                       | 222      | \$ 380,668    |
| 220            | CONTROLLING, INDICATING, MEASURING, ETC.                       | 269      | \$ 1,292,296  |
| 225            | WATER COOLERS (WATER FOUNTAINS) FOR DRINKING                   | 70       | \$ 134,183    |

NCAS Purchases by Commodity  
FY00

| Commodity Code | Commodity Description                                           | PO Lines | PO Totals     |
|----------------|-----------------------------------------------------------------|----------|---------------|
| 232            | CRAFTS, GENERAL                                                 | 945      | \$ 71,118     |
| 233            | CRAFTS, SPECIALIZED                                             | 86       | \$ 16,033     |
| 240            | CUTLERY, DISHES, FLATWARE, GLASSWARE, TRAYS, ETC.               | 1,549    | \$ 931,185    |
| 245            | DAIRY EQUIPMENT AND SUPPLIES                                    | 133      | \$ 41,448     |
| 250            | DATA PROCESSING CARDS & PAPER                                   | 280      | \$ 1,005,025  |
| 255            | DECALS AND STAMPS                                               | 116      | \$ 263,109    |
| 260            | DENTAL EQUIPMENT AND SUPPLIES                                   | 3,353    | \$ 407,101    |
| 265            | DRAPERIES, CURTAINS AND UPHOLSTERY MATERIAL (INCLUDING AUTO)    | 509      | \$ 761,286    |
| 269            | DRUGS & PHARMACEUTICALS                                         | 1,166    | \$ 33,227,999 |
| 271            | DRUGS, PHARMACEUTICALS & SETS (FOR LARGE-VOLUME INFUSION, ETC.) | 735      | \$ 2,015,069  |
| 280            | ELECTRICAL CABLES AND WIRES (NOT ELECTRONIC)                    | 390      | \$ 217,998    |
| 285            | ELECTRICAL EQUIPMENT AND SUPPLIES (NOT CABLE & WIRE)            | 3,938    | \$ 1,818,471  |
| 287            | ELECTRONIC COMPONENTS, PARTS & ACCESSORIES                      | 1,077    | \$ 2,052,799  |
| 290            | ENERGY COLLECTING EQUIPMENT & ACCESSORIES                       | 2        | \$ 38,530     |
| 295            | ELEVATORS & ESCALATORS, BUILDING TYPE                           | 7        | \$ 45,202     |
| 305            | ENGINEERING & SURVEYING EQUIPMENT, DRAWING SUPPLIES             | 414      | \$ 241,279    |
| 310            | ENVELOPES, PLAIN OR PRINTED"                                    | 1,518    | \$ 2,150,406  |
| 315            | EPOXY BASED FORMULATIONS FOR ADHESIVES, & RELATED AGENTS        | 82       | \$ 31,179     |
| 318            | FARE COLLECTION EQUIPMENT & SUPPLIES                            | 284      | \$ 79,311     |
| 320            | FASTENING, PACKAGING, STRAPPING & SUPPLIES                      | 1,709    | \$ 143,783    |
| 325            | ANIMAL FEED, BEDDING, VITAMINS & SUPPLEMENTS                    | 1,162    | \$ 2,668,891  |
| 330            | FENCING                                                         | 350      | \$ 161,640    |
| 335            | FERTILIZERS AND SOIL CONDITIONERS                               | 329      | \$ 606,763    |
| 340            | FIRE PROTECTION EQUIPMENT & SUPPLIES                            | 715      | \$ 465,572    |
| 345            | FIRST-AID & SAFETY EQUIPMENT & SUPPLIES                         | 2,140    | \$ 1,299,762  |
| 350            | FLAGS, FLAGPOLES, BANNERS AND ACCESSORIES                       | 206      | \$ 120,142    |

NCAS Purchases by Commodity  
FY00

| Commodity Code | Commodity Description                                             | PO Lines | PO Totals     |
|----------------|-------------------------------------------------------------------|----------|---------------|
| 360            | FLOOR COVERING, FLOOR COVERING INSTALL & REMOVAL EQUIP            | 487      | \$ 1,191,812  |
| 365            | FLOOR MAINTENANCE MACHINES, PARTS & ACCESSORIES                   | 373      | \$ 227,708    |
| 370            | FOOD PROCESSING AND CANNING EQUIPMENT & SUPPLIES                  | 139      | \$ 1,008,113  |
| 375            | FOODS: BAKERY PRODUCTS (FRESH)                                    | 1,453    | \$ 2,368,959  |
| 380            | FOODS: DAIRY PRODUCTS (FRESH)                                     | 738      | \$ 3,415,246  |
| 385            | FOODS: FROZEN                                                     | 1,891    | \$ 2,735,887  |
| 390            | FOODS: PERISHABLE                                                 | 3,937    | \$ 9,754,143  |
| 393            | FOODS: STAPLE GROCERY & CROCCER'S MISCELLANEOUS ITEMS             | 9,647    | \$ 14,922,256 |
| 395            | FORMS, CONTINUOUS: COMPUTER PAPER, FORM LABELS, ETC.              | 945      | \$ 1,395,899  |
| 400            | FOUNDY CASTINGS, EQUIPMENT & SUPPLIES                             | 8        | \$ 3,565      |
| 405            | FUEL, OIL GREASE & LUBRICANTS                                     | 1,146    | \$ 6,242,109  |
| 410            | FURNITURE: HEALTH CARE & HOSPITAL FACILITY                        | 378      | \$ 897,983    |
| 415            | FURNITURE: LABORATORY                                             | 97       | \$ 117,269    |
| 420            | FURNITURE: CAFETERIA, CHAPEL, DORMITORY, HOUSEHOLD, ETC.          | 1,296    | \$ 2,463,699  |
| 425            | FURNITURE: OFFICE                                                 | 5,246    | \$ 6,168,767  |
| 430            | GASES, CONTAINERS & EQUIPMENT: LABORATORY, MEDICAL & WELDING      | 333      | \$ 234,335    |
| 435            | GERMICIDES, CLEANERS & RELATED SANIT. PROD. FOR HEALTH CARE       | 90       | \$ 141,939    |
| 440            | GLASS AND GLAZING SUPPLIES                                        | 202      | \$ 137,530    |
| 445            | HAND TOOLS (POWERED & NON-POWERED), ACCESSORIES & SUPPLIES        | 2,729    | \$ 519,185    |
| 450            | HARDWARE AND RELATED ITEMS                                        | 3,194    | \$ 1,986,518  |
| 460            | HOSE, ACCESSORIES & SUPPLIES: INDUSTRIAL, COMMERCIAL & GARDEN     | 350      | \$ 51,889     |
| 465            | HOSPITAL & SURGICAL EQUIPMENT, INSTRUMENTS & SUPPLIES             | 6,352    | \$ 4,425,250  |
| 470            | HOSPITAL & HANDICAP EQUIP. & SUPPLIES: MOBILITY, SPEECH, ETC.     | 1,153    | \$ 1,436,142  |
| 475            | HOSPITAL, SURGICAL & RELATED MEDICAL ACCESSORIES AND SUNDRY ITEMS | 3,602    | \$ 2,144,458  |
| 485            | JANITORIAL SUPPLIES, GENERAL LINE                                 | 2,915    | \$ 4,210,432  |
| 490            | LAB EQUIPMENT & ACCESSORIES FOR GENERAL USE                       | 266      | \$ 528,661    |

NCAS Purchases by Commodity  
FY00

| Commodity Code | Commodity Description                                             | PO Lines | PO Totals    |
|----------------|-------------------------------------------------------------------|----------|--------------|
| 493            | LAB EQUIPMENT & ACCESSORIES: BIOCHEM, CHEM, ENVIRON               | 360      | \$ 1,096,276 |
| 495            | LAB & FIELD EQUIP: BIOLOGY, BOTANY, GEOLOGY, MICROBIOLOGY,ETC.    | 232      | \$ 290,059   |
| 500            | COMMERCIAL LAUNDRY AND DRY CLEANING EQUIP, ACCESS, PARTS & SUPPLI | 281      | \$ 293,215   |
| 505            | LAUNDRY AND DRY CLEANING COMPOUNDS & SUPPLIES                     | 482      | \$ 1,696,857 |
| 510            | LAUNDRY TEXTILES AND SUPPLIES                                     | 214      | \$ 127,912   |
| 515            | LAWN MAINTENANCE EQUIP., ACCESSORIES & PARTS                      | 691      | \$ 451,465   |
| 520            | LEATHER & RELATED EQUIPMENT, PRODUCTS, ACCESSORIES & SUPPLIES     | 214      | \$ 80,618    |
| 525            | LIBRARY AND ARCHIVAL EQUIPMENT, MACHINES AND SUPPLIES             | 1,029    | \$ 153,555   |
| 530            | LUGGAGE, BRIEF CASES, PURSES & RELATED ITEMS                      | 258      | \$ 92,431    |
| 540            | LUMBER & RELATED PRODUCTS                                         | 1,316    | \$ 965,279   |
| 545            | MACHINERY AND HARDWARE, INDUSTRIAL                                | 612      | \$ 792,068   |
| 550            | MARKERS, PLAQUES, AND TRAFFIC CONTROL DEVICES                     | 360      | \$ 6,175,635 |
| 555            | MARKING & STENCILING DEVICES                                      | 11       | \$ 6,855     |
| 557            | MASS TRANSPORTATION - TRANSIT BUS ACCESSORIES & PARTS             | 648      | \$ 318,252   |
| 558            | MASS TRANSPORTATION - RAIL VEHICLES & SYSTEMS                     | 9        | \$ 33,624    |
| 559            | MASS TRANSPORTATION - RAIL VEHICLE PARTS & ACCESSORIES            | 98       | \$ 29,391    |
| 560            | MATERIAL HANDLING & STORAGE EQUIPMENT AND ALLIED ITEMS            | 509      | \$ 1,152,989 |
| 565            | MATTRESS MANUFACTURING MACHINERY AND SUPPLIES                     | 18       | \$ 2,975     |
| 570            | METALS: BARS, PLATES, RODS, SHEETS, STRIPS, TUBING                | 1,011    | \$ 3,114,764 |
| 575            | MICROFICHE & MICROFILM EQUIPMENT, ACCESSORIES AND SUPPLIES        | 113      | \$ 160,741   |
| 578            | MISC. EQUIPMENT: TOLL COLLECTION, RECYCLING, ELECTION, ETC.       | 197      | \$ 99,394    |
| 580            | MUSICAL INSTRUMENTS, ACCESSORIES AND SUPPLIES                     | 297      | \$ 53,464    |
| 590            | NOTIONS AND RELATED SEWING ACCESSORIES & SUPPLIES                 | 682      | \$ 375,127   |
| 595            | NURSERY STOCK, EQUIPMENT & SUPPLIES                               | 986      | \$ 470,943   |
| 600            | OFFICE MACHINES, OFFICE EQUIPMENT AND ACCESSORIES                 | 3,351    | \$ 3,257,667 |
| 605            | OFFICE MECHANICAL AIDS, SMALL MACHINES & APPARATUSES              | 1,002    | \$ 225,905   |



NCAS Purchases by Commodity  
FY00

| Commodity Code | Commodity Description                                             | PO Lines | PO Totals     |
|----------------|-------------------------------------------------------------------|----------|---------------|
| 610            | OFFICE SUPPLIES: CARBON PAPER & RIBBONS, ALL TYPES                | 959      | \$ 289,670    |
| 615            | OFFICE SUPPLIES: GENERAL                                          | 22,709   | \$ 5,745,645  |
| 620            | OFFICE SUPPLIES: ERASERS, INKS, LEADS, PENS, PENCILS, ETC.        | 2,538    | \$ 452,530    |
| 625            | OPTICAL EQUIPMENT, ACCESSORIES & SUPPLIES                         | 572      | \$ 4,282,954  |
| 630            | PAINT, PROTECTIVE COATINGS, VARNISH, WALLPAPER & RELATED PRODUCTS | 851      | \$ 4,026,032  |
| 635            | PAINTING EQUIPMENT & ACCESSORIES                                  | 260      | \$ 81,408     |
| 640            | DISPOSABLE PAPER & PLASTIC PRODUCTS                               | 2,266    | \$ 4,389,355  |
| 645            | PAPER, FOR OFFICE & PRINT SHOP USE                                | 2,793    | \$ 4,155,996  |
| 650            | PARK, PLAYGROUND, RECREATIONAL AREA AND SWIMMING POOL EQUIP       | 141      | \$ 178,870    |
| 652            | PERSONAL HYGIENE & GROOMING EQUIPMENT & SUPPLIES                  | 1,354    | \$ 530,522    |
| 655            | PHOTOGRAPHIC EQUIP. & SUPPLIES                                    | 1,359    | \$ 526,506    |
| 658            | PIPE & TUBING                                                     | 457      | \$ 88,228     |
| 659            | PIPE & TUBING FITTINGS                                            | 825      | \$ 97,168     |
| 660            | PIPES, TOBACCO, SMOKING ACCESSORIES; ALCOHOLIC BEVERAGES          | 27       | \$ 7,188      |
| 665            | PLASTICS, RESINS, FIBERGLASS: CONSTRUCTION, LAMINATING            | 829      | \$ 578,159    |
| 670            | PLUMBING EQUIPMENT, FIXTURES AND SUPPLIES                         | 1,996    | \$ 1,217,624  |
| 675            | POISONS: AGRICULTURAL & INDUSTRIAL                                | 321      | \$ 1,614,102  |
| 680            | POLICE EQUIPMENT AND SUPPLIES                                     | 1,267    | \$ 2,070,127  |
| 685            | POULTRY EQUIPMENT AND SUPPLIES                                    | 27       | \$ 48,073     |
| 690            | POWER GENERATION EQUIPMENT - ELEC, MECHAN, AIR & HYDRAULIC        | 269      | \$ 388,482    |
| 691            | POWER TRANSMISSION EQUIPMENT - ELEC, MECHAN, AIR & HYDRAULIC      | 206      | \$ 54,908     |
| 700            | PRINTING PLANT EQUIPMENT AND SUPPLIES (EXCEPT PAPERS)             | 722      | \$ 832,974    |
| 710            | PROSTHETIC DEVICES, HEARING AIDS, AUDITORY TESTING EQUIP.         | 372      | \$ 506,587    |
| 715            | PUBLICATIONS & AUDIOVISUAL MATERIALS                              | 8,159    | \$ 62,236,433 |
| 720            | PUMPING EQUIPMENT & ACCESSORIES                                   | 219      | \$ 243,477    |
| 725            | RADIO, TELEPHONE & TELECOMM EQUIP AND ACCESS & SUPPLIES           | 4,041    | \$ 9,703,520  |

NCAS Purchases by Commodity  
FY00

| Commodity Code | Commodity Description                                             | PO Lines | PO Totals    |
|----------------|-------------------------------------------------------------------|----------|--------------|
| 730            | RADIO & TELECOMMUNICATION TESTING, MEASURING & ANALYZING EQUIP    | 84       | \$ 65,040    |
| 735            | RAGS, SHOP TOWELS AND WIPING CLOTHS                               | 167      | \$ 97,667    |
| 740            | REFRIGERATION EQUIPMENT AND ACCESSORIES                           | 284      | \$ 575,641   |
| 745            | ROAD AND HIGHWAY BUILDING MATERIALS (ASPHALTIC)                   | 9        | \$ 1,800     |
| 750            | ROAD AND HIGHWAY BUILDING MATERIALS (NOT ASPHALT)                 | 231      | \$ 293,110   |
| 755            | ROAD AND HIGHWAY EQUIPMENT: ASPHALT AND CONCRETE HANDLING         | 30       | \$ 43,180    |
| 760            | ROAD AND HIGHWAY EQUIPMENT: EARTH HANDLING (GRADING, MOVING ETC)  | 147      | \$ 397,689   |
| 765            | ROAD AND HIGHWAY EQUIPMENT: EXCEPT ASPHALT, EARTH & CONCRETE HAN  | 722      | \$ 966,961   |
| 770            | ROOFING                                                           | 329      | \$ 210,804   |
| 775            | SALT - SODIUM CHLORIDE (SEE CLASS 393 FOR TABLE SALT)             | 36       | \$ 27,618    |
| 780            | SCALES AND WEIGHING APPARATUS (SEE CLASS 175 FOR LABORATORY BALAN | 121      | \$ 80,215    |
| 785            | SCHOOL EQUIPMENT AND SUPPLIES                                     | 5,492    | \$ 2,381,318 |
| 790            | SEED, SOD, SOIL AND INOCULANTS                                    | 230      | \$ 224,052   |
| 795            | SEWING ROOM AND TEXTILE MACHINERY AND ACCESSORIES                 | 70       | \$ 172,999   |
| 800            | SHOES AND BOOTS                                                   | 1,501    | \$ 2,650,642 |
| 801            | SIGNS, SIGN MATERIALS, SIGN MAKING EQUIP & RELATED SUPPLIES       | 848      | \$ 579,819   |
| 803            | SOUND SYSTEMS, COMPONENTS & ACCESS: INTERCOM, MUSIC, PUBLIC ADDR  | 293      | \$ 369,712   |
| 805            | SPORTING GOODS, ATHLETIC EQUIPMENT & ATHLETIC FACILITY EQUIP      | 821      | \$ 787,983   |
| 810            | SPRAYING EQUIPMENT (EXCEPT HOUSEHOLD, NURSERY PLANT AND PAINT)    | 125      | \$ 80,515    |
| 815            | STEAM AND HOT WATER FITTINGS, ACCESSORIES AND SUPPLIES            | 308      | \$ 169,962   |
| 820            | STEAM & HOT WATER BOILERS AND STEAM HEATING EQUIPMENT             | 333      | \$ 206,059   |
| 825            | STOCKMAN EQUIPMENT & SUPPLIES                                     | 123      | \$ 86,882    |
| 830            | TANKS (METAL, WOOD, SYNTHETIC MATLS): MOBILE, PORTABLE, STATION   | 56       | \$ 70,523    |
| 832            | TAPE (EXCLUDING DATA PROCESSING, MEASURING, OPT, SEWING, ETC)     | 458      | \$ 100,089   |
| 840            | TELEVISION EQUIPMENT AND ACCESSORIES                              | 1,429    | \$ 2,204,097 |
| 845            | TESTING APPARATUS & INSTRUMENTS (NOT FOR ELEC OR ELECTRONIC MEASU | 32       | \$ 27,569    |

NCAS Purchases by Commodity  
FY00

| Commodity Code | Commodity Description                                       | PO Lines | PO Totals     |
|----------------|-------------------------------------------------------------|----------|---------------|
| 850            | TEXTILES, FIBERS, PIECE GOODS AND HOUSEHOLD LINENS          | 1,123    | \$ 6,646,451  |
| 855            | THEATRICAL EQUIPMENT AND SUPPLIES                           | 44       | \$ 110,491    |
| 860            | TICKETS, COUPON BOOKS, SCRIPT BOOKS, SALES BOOKS, ETC.      | 13       | \$ 1,293      |
| 863            | TIRES AND TUBES                                             | 1,210    | \$ 1,408,616  |
| 864            | TRAIN CONTROLS, ELECTRONIC                                  | 2        | \$ 1,302      |
| 865            | TWINE                                                       | 34       | \$ 15,941     |
| 870            | VENETIAN BLINDS, SHADES AND AWNINGS                         | 271      | \$ 198,727    |
| 875            | VETERINARY EQUIPMENT AND SUPPLIES (SEE CLASS 325 )          | 1,562    | \$ 1,537,755  |
| 880            | VISUAL EDUCATION EQUIPMENT AND SUPPLIES                     | 592      | \$ 1,017,574  |
| 883            | VOICE RESPONSE SYSTEMS                                      | 63       | \$ 1,060,574  |
| 885            | WATER & WASTEWATER TREATING CHEMICALS                       | 376      | \$ 398,468    |
| 890            | WATER SUPPLY, GROUNDWATER & SEWAGE TREATMENT EQUIPMENT      | 215      | \$ 219,015    |
| 895            | WELDING EQUIPMENT & SUPPLIES                                | 382      | \$ 118,095    |
| 898            | X-RAY & OTHER RADIOLOGICAL EQUIPMENT & SUPPLIES (MEDICAL)   | 486      | \$ 1,265,649  |
| 905            | AIRCRAFT OPERATIONS SERVICES                                | 38       | \$ 319,859    |
| 906            | ARCHITECTURAL SERVICES, PROFESSIONAL                        | 269      | \$ 536,810    |
| 907            | ARCHITECTURAL & ENGINEERING SERVICES, NON-PROFESSIONAL      | 311      | \$ 9,511,401  |
| 908            | BOOKBINDING, REBINDING & REPAIR                             | 52       | \$ 473,901    |
| 909            | BUILDING CONSTRUCTION SERVICES, NEW                         | 1,426    | \$ 48,528,870 |
| 910            | BUILDING MAINTENANCE & REPAIR SERVICES                      | 2,725    | \$ 8,855,249  |
| 912            | CONSTRUCTION SERVICES, GENERAL                              | 59       | \$ 76,180     |
| 913            | CONSTRUCTION SERVICES, HEAVY                                | 237      | \$ 472,009    |
| 914            | CONSTRUCTION SERVICES, TRADE (NEW CONSTRUCTION)             | 2,545    | \$ 1,230,445  |
| 915            | COMMUNICATIONS & MEDIA RELATED SERVICES                     | 2,017    | \$ 3,060,006  |
| 918            | CONSULTING SERVICES                                         | 2,065    | \$ 43,633,202 |
| 920            | DATA PROCESSING SERVICES & SOFTWARE DEVELOPMENT & IMPLEMENT | 5,380    | \$ 87,320,724 |

NCAS Purchases by Commodity  
FY00

| Commodity Code | Commodity Description                                            | PO Lines | PO Totals      |
|----------------|------------------------------------------------------------------|----------|----------------|
| 924            | EDUCATIONAL SERVICES                                             | 1,295    | \$ 5,520,188   |
| 925            | ENGINEERING SERVICES, PROFESSIONAL                               | 242      | \$ 1,556,631   |
| 926            | ENVIRONMENTAL & ECOLOGICAL SERVICES                              | 278      | \$ 549,183     |
| 928            | EQUIP. MAINT, RECOND & REPAIR: AUTOS, TRUCKS, BUSES, ETC.        | 836      | \$ 1,961,763   |
| 929            | EQUIP. MAINT, RECOND & REPAIR: AGRICULTURE, MARINE & INDUSTRIAL  | 748      | \$ 500,636     |
| 931            | EQUIP. MAINT, RECOND & REPAIR: APPLIANCE, FURNITURE, SEWING, ETC | 1,227    | \$ 699,957     |
| 934            | EQUIP. MAINT, RECOND & REPAIR: LAUNDRY, PLUMBING, LAWN, PAINTING | 1,669    | \$ 592,564     |
| 936            | EQUIP. MAINT, RECOND & REPAIR: GENERAL EQUIPMENT                 | 4,745    | \$ 1,737,850   |
| 938            | EQUIP. MAINT, RECOND & REPAIR: HOSPITAL, LABORATORY & TESTING    | 2,867    | \$ 3,308,363   |
| 939            | EQUIP. MAINT, RECOND & REPAIR: OFFICE, PHOTOGRAPHIC & RADIO/TV   | 8,991    | \$ 31,997,420  |
| 940            | EQUIP. MAINT, REPAIR, CONSTRUCTION - RAILROAD                    | 220      | \$ 1,301,195   |
| 941            | EQUIP. MAINT, REPAIR, CONSTRUCTION - POWER GENERATION            | 611      | \$ 484,357     |
| 945            | FISHING, HUNTING, TRAPPING, GAME PROPAGATION & RELATED SERVICES  | 8        | \$ 1,495       |
| 946            | FINANCIAL SERVICES                                               | 320      | \$ 5,855,284   |
| 947            | FORESTRY SERVICES                                                | 11       | \$ 173,371     |
| 948            | HEALTH RELATED SERVICES (SEE CLASS 952 FOR HUMAN SERVICES)       | 5,821    | \$ 43,984,803  |
| 952            | HUMAN SERVICES                                                   | 3,121    | \$ 85,023,675  |
| 953            | INSURANCE, ALL TYPES                                             | 97       | \$ 131,851     |
| 954            | LAUNDRY & DRY CLEANING SERVICES                                  | 29       | \$ 310,554     |
| 956            | LIBRARY SERVICES (SEE CLASS 908 FOR BOOKBINDING)                 | 802      | \$ 800,234     |
| 958            | MANAGEMENT SERVICES                                              | 178      | \$ 3,593,191   |
| 959            | MARINE CONSTRUCTION & MAINTENANCE SERVICES                       | 101      | \$ 299,271     |
| 961            | MISCELLANEOUS PROFESSIONAL SERVICES                              | 7,176    | \$ 609,677,753 |
| 962            | MISCELLANEOUS SERVICES                                           | 2,542    | \$ 8,257,485   |
| 965            | PRINTING PREP.: ETCHING, PHOTOENGRAVING, & PREP.                 | 80       | \$ 923,770     |
| 966            | PRINTING & RELATED SERVICES                                      | 3,724    | \$ 10,931,435  |

NCAS Purchases by Commodity  
FY00

| Commodity Code | Commodity Description                                             | PO Lines | PO Totals        |
|----------------|-------------------------------------------------------------------|----------|------------------|
| 968            | PUBLIC WORKS & RELATED SERVICES                                   | 144      | \$ 279,939       |
| 971            | REAL PROPERTY RENTAL OR LEASE                                     | 1,178    | \$ 16,917,059    |
| 975            | EQUIPMENT RENTAL OR LEASE: AGRICULT, AIRCRAFT, AUTO, MARINE       | 219      | \$ 1,296,002     |
| 977            | EQUIPMENT RENTAL OR LEASE: APPLIANCES, CAFETERIA, FURNITURE, ETC. | 216      | \$ 183,002       |
| 979            | EQUIPMENT RENTAL OR LEASE: HOSPITAL, LABORATORY, REFRIG, TESTING, | 486      | \$ 1,243,371     |
| 981            | EQUIPMENT RENTAL OR LEASE: GENERAL EQUIPMENT                      | 860      | \$ 628,382       |
| 983            | EQUIPMENT RENTAL OR LEASE: JANITORIAL, LAUNDRY, TEXTILE, PAINTING | 77       | \$ 356,924       |
| 984            | RENTAL OR LEASE OF COMPUTERS, DATA PROCESS & WORD PROCESS EQUIPME | 373      | \$ 3,954,016     |
| 985            | EQUIPMENT RENTAL OR LEASE: OFFICE, PHOTOGRAPHIC, PRINTING, RADIO/ | 1,675    | \$ 2,660,874     |
| 988            | ROADSIDE, GROUNDS, RECREATIONAL & PARK AREA SERVICES              | 361      | \$ 413,939       |
| 989            | SAMPLING & SAMPLE PREPARATION SERVICES (FOR TESTING)              | 79       | \$ 30,547        |
| 990            | SECURITY, FIRE, SAFETY & EMERGENCY SERVICES                       | 130      | \$ 1,318,040     |
| 992            | TESTING & CALIBRATION SERVICES                                    | 106      | \$ 373,567       |
|                |                                                                   | 293,539  | \$ 1,517,813,232 |

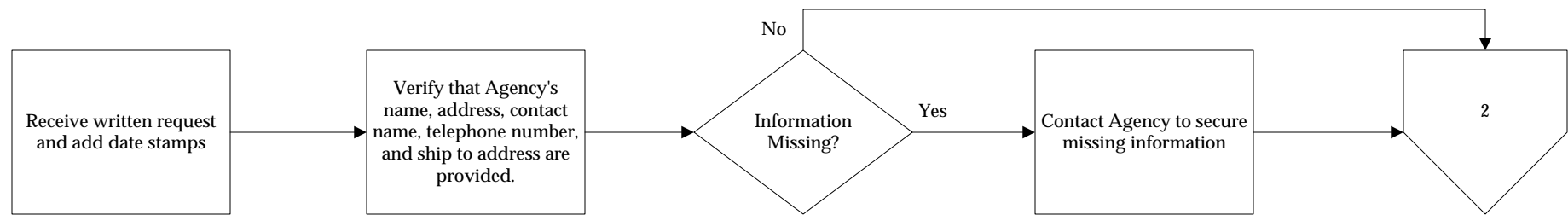
## **Appendix C:**

### **Business Process Flows**

Administrative Assistant

Note:

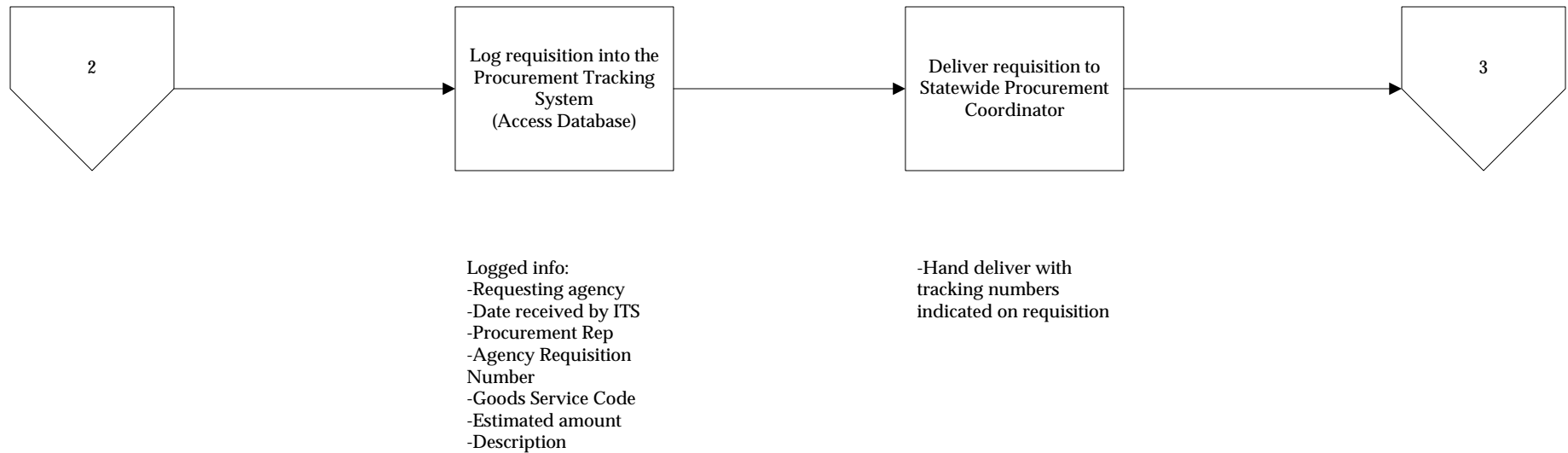
- Agency delegations for ITS goods are generally \$25,000 but may be altered at an agency's request with ITS approval



-Agency hand carries or faxes written request form

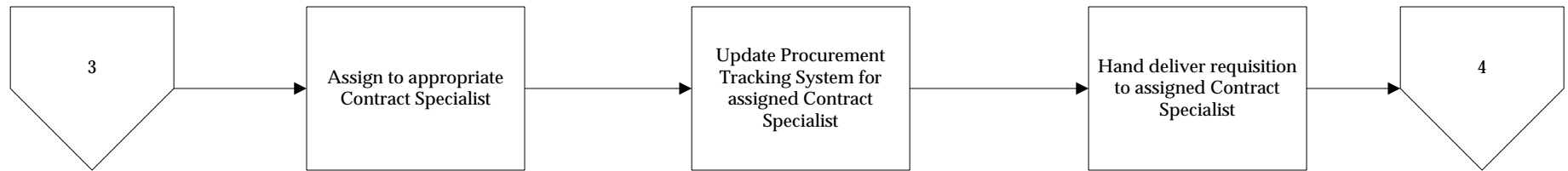
-Phone agency to obtain necessary information  
-Contact information must be complete before the request can proceed

Administrative Assistant



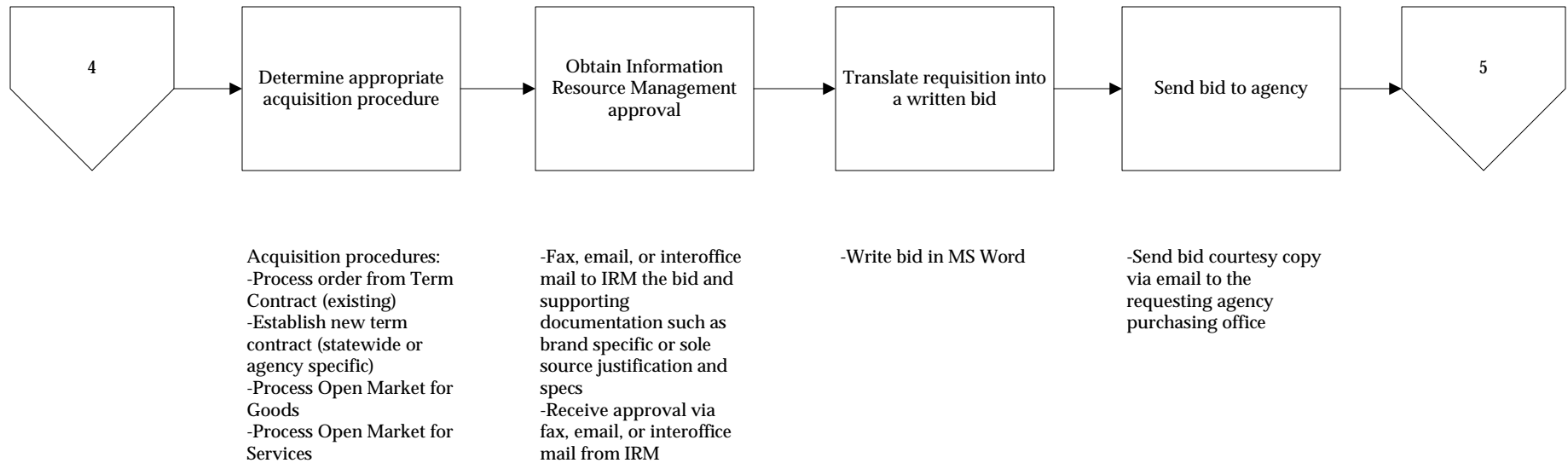


Statewide Procurement Coordinator

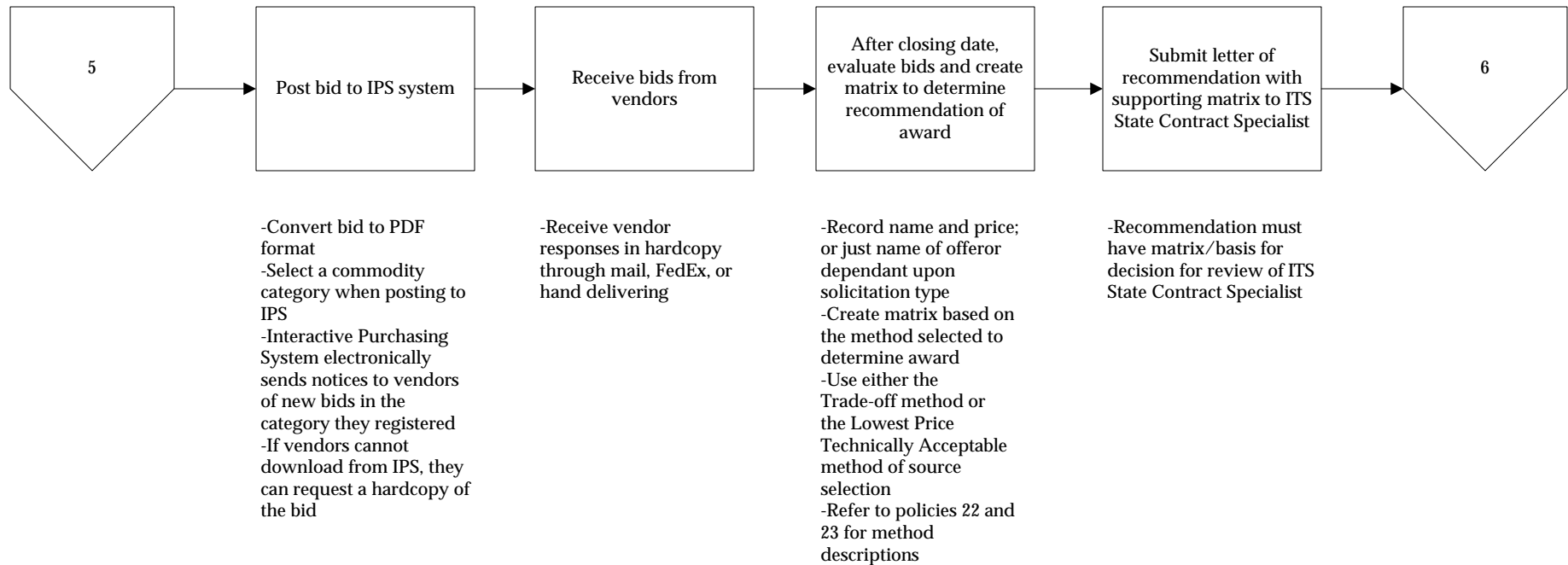


-IT Hardware and Hardware Support = Angie Dunaway  
-IT Software, Software Licenses, and Software Support = Patti  
-Telecommunications, Copiers, and Fax Machines = Releata

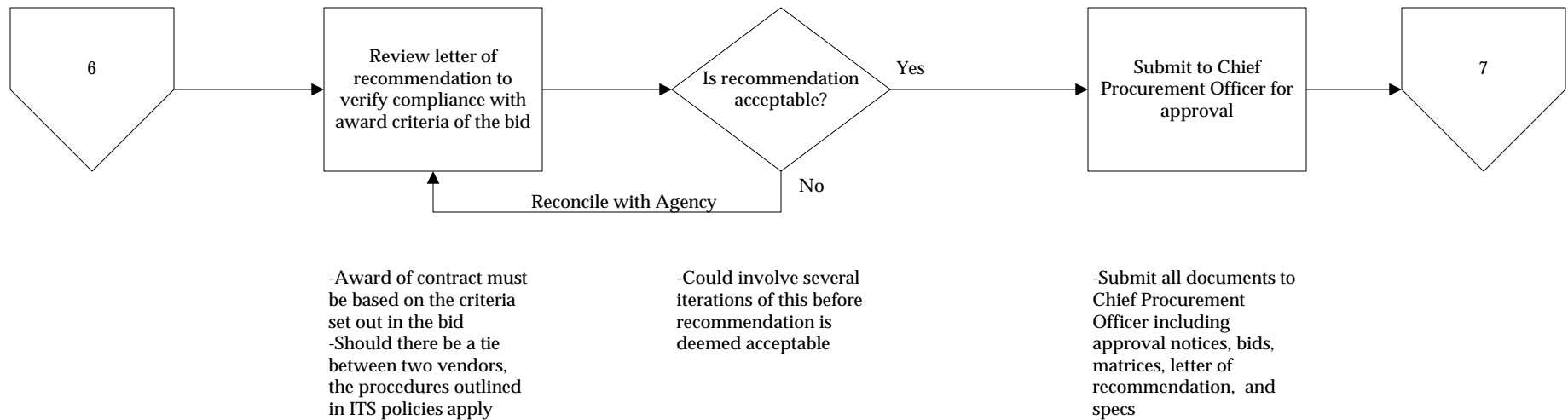
ITS Contract Specialist



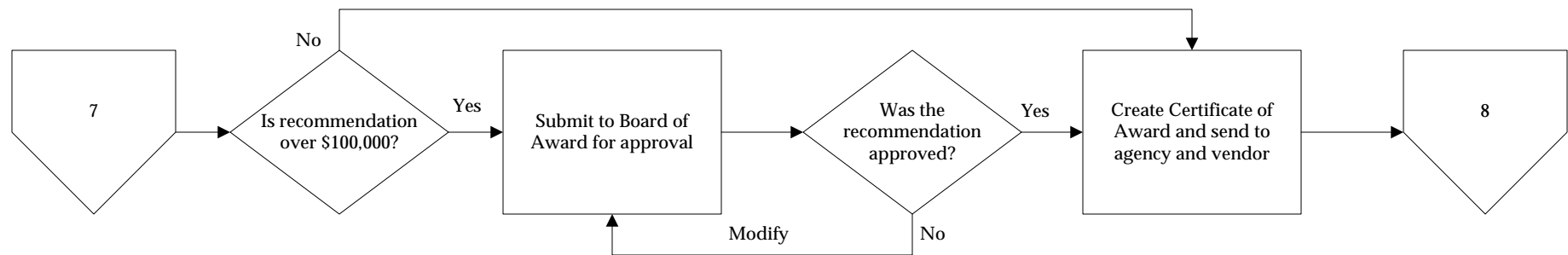
Agency



ITS Contract Specialist



ITS Contract Specialist



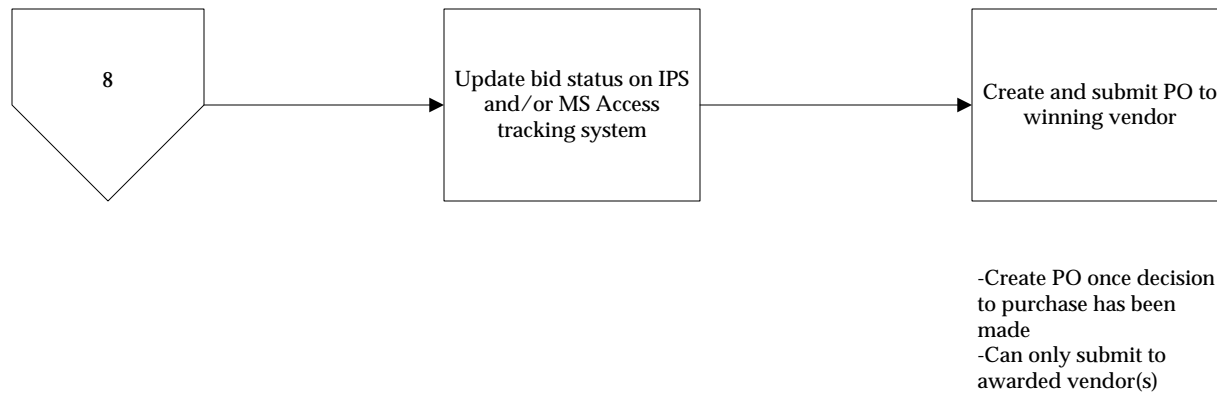
-If under \$100,000 the only remaining approval comes from the Chief Procurement Officer  
-If over \$100,000 then additional approval is required from the Board of Award  
-If over \$100,000 and originating from the ITS agency then approval of Office of Management and Budget is required

-Attend Board of Award meeting with approval notices, bids, matrices, letter of recommendation, and specs

-If the requisition is not approved, it must be modified to meet approval before it can proceed

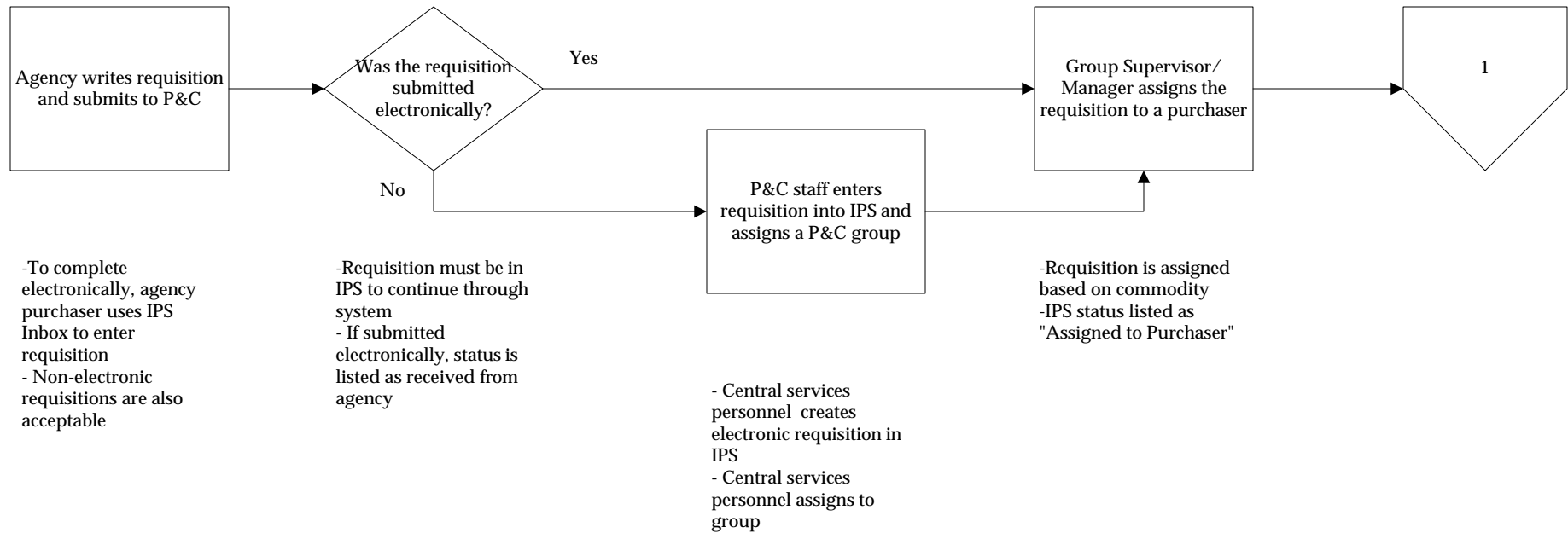
-MS Word based document  
-Certificate of Award is sent to the agency and vendor first by email, then by fax, and a final follow-up with a hard-copy.

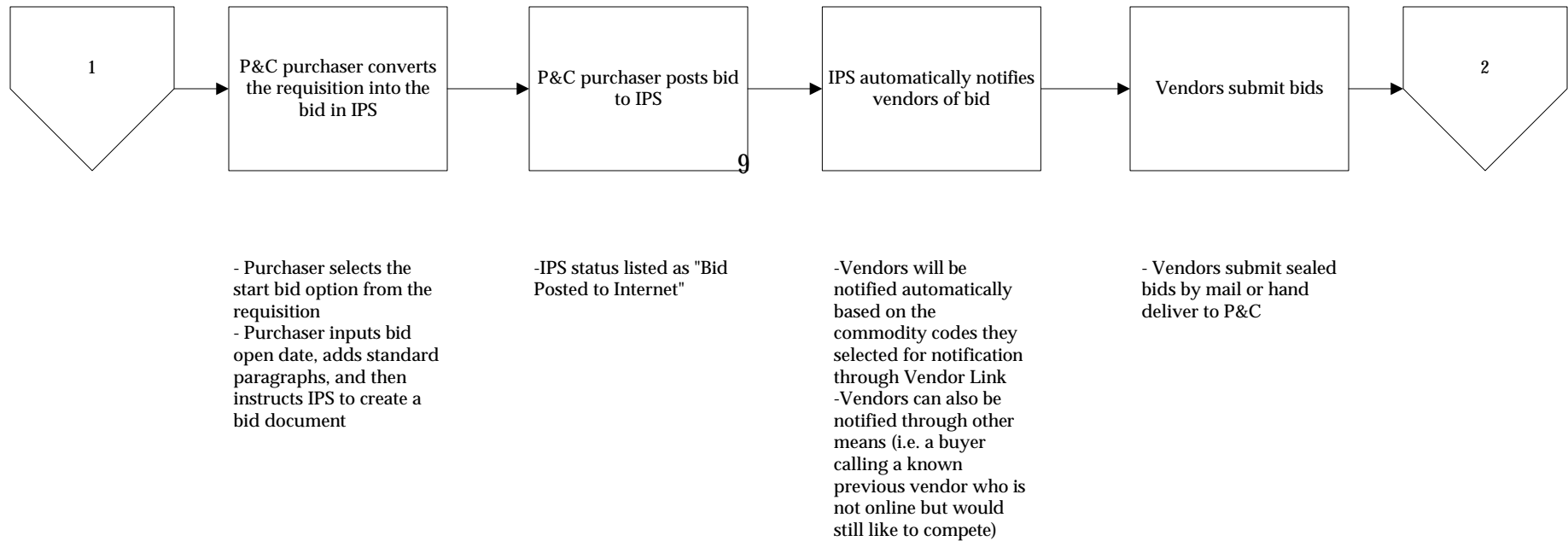
Agency



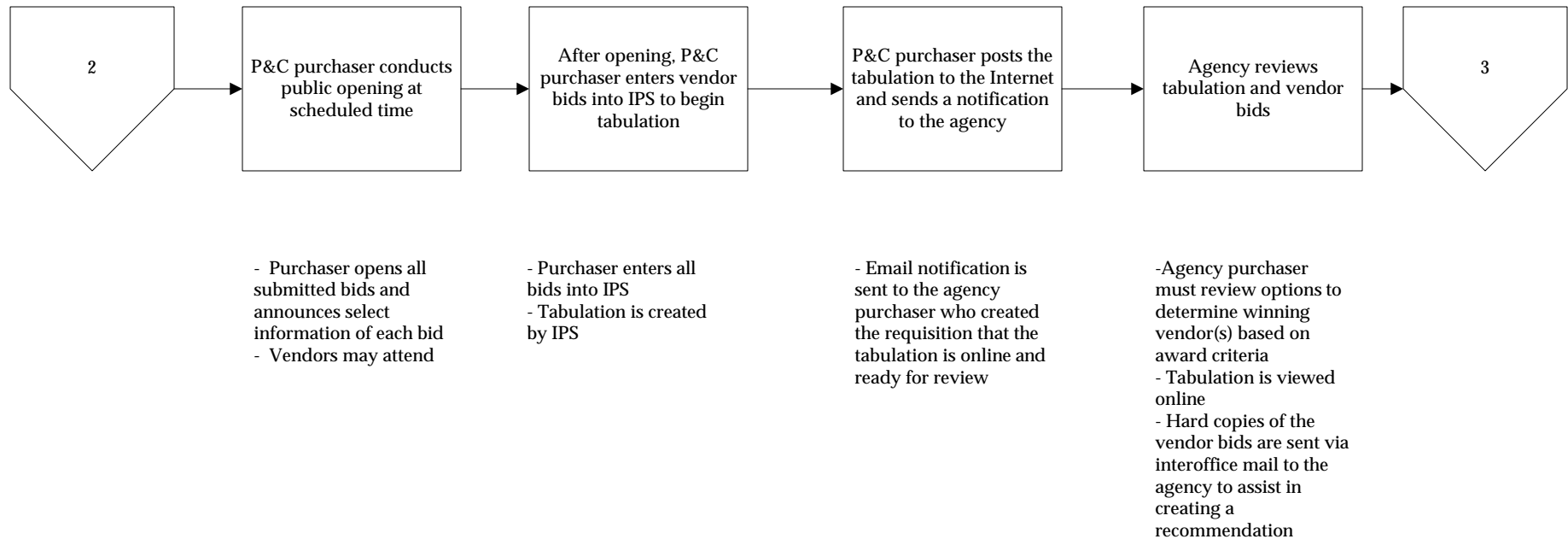
Note:

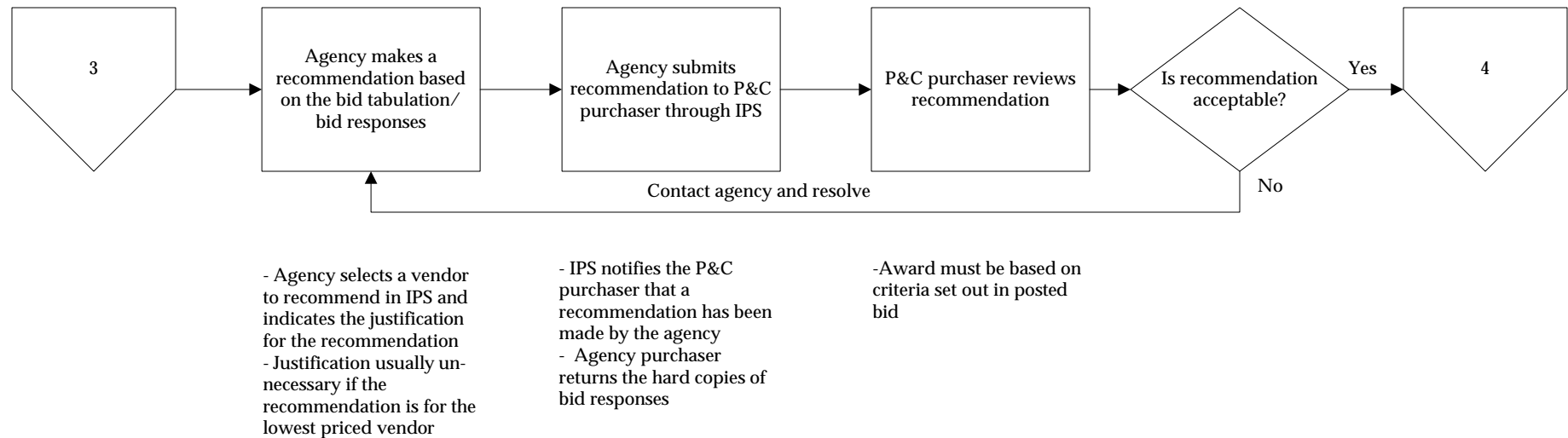
- Agency delegations for P&C goods are generally \$10,000 but may be altered at an agency's request with P&C approval



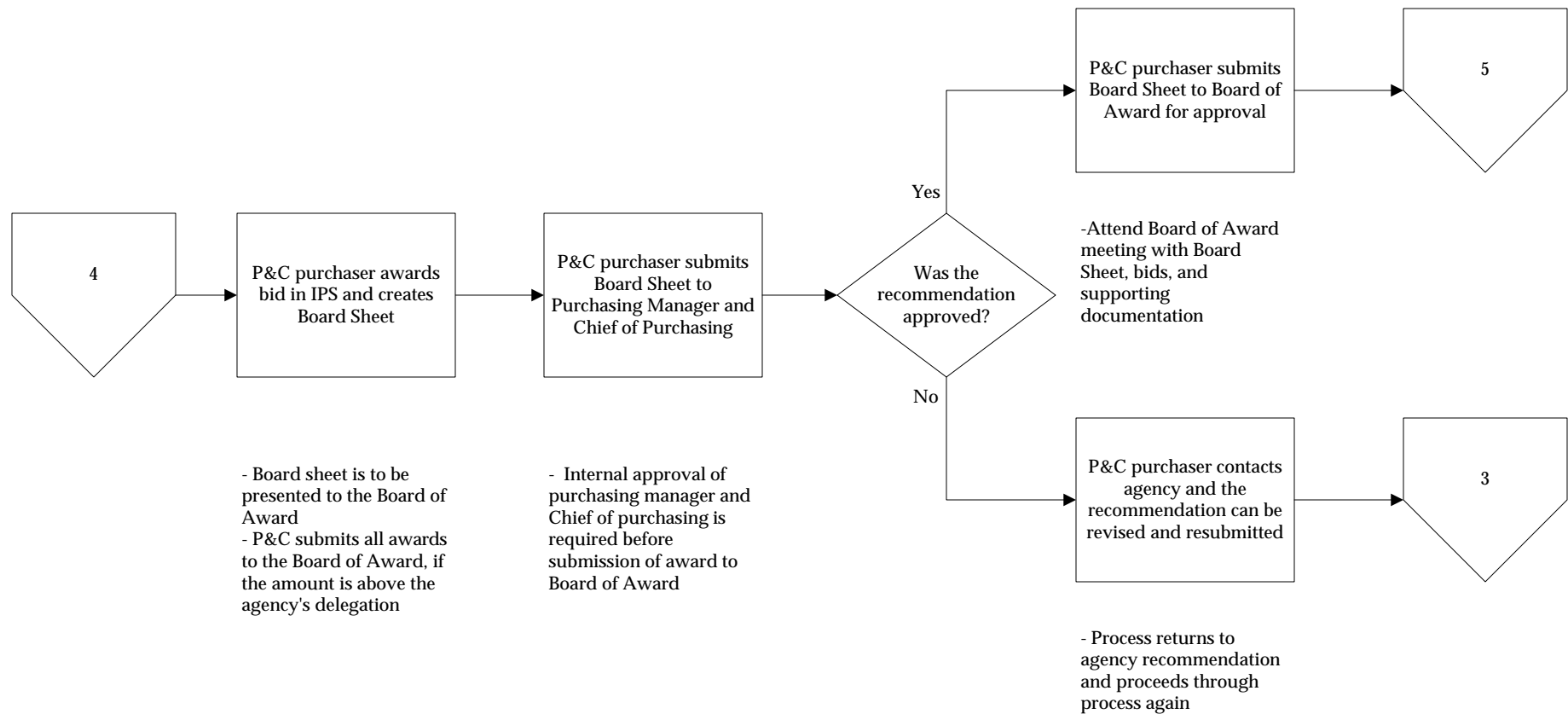


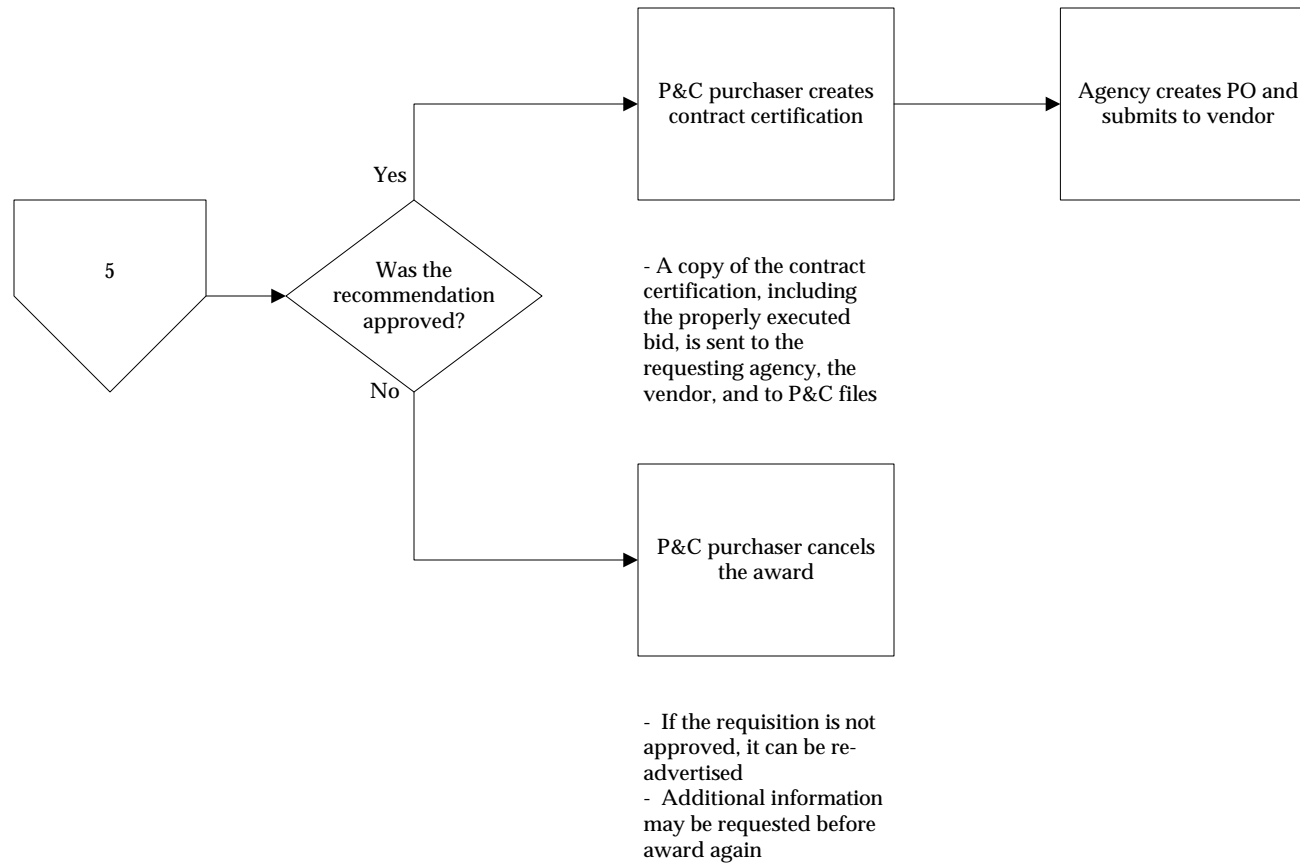






## Purchase and Contract Requisitions

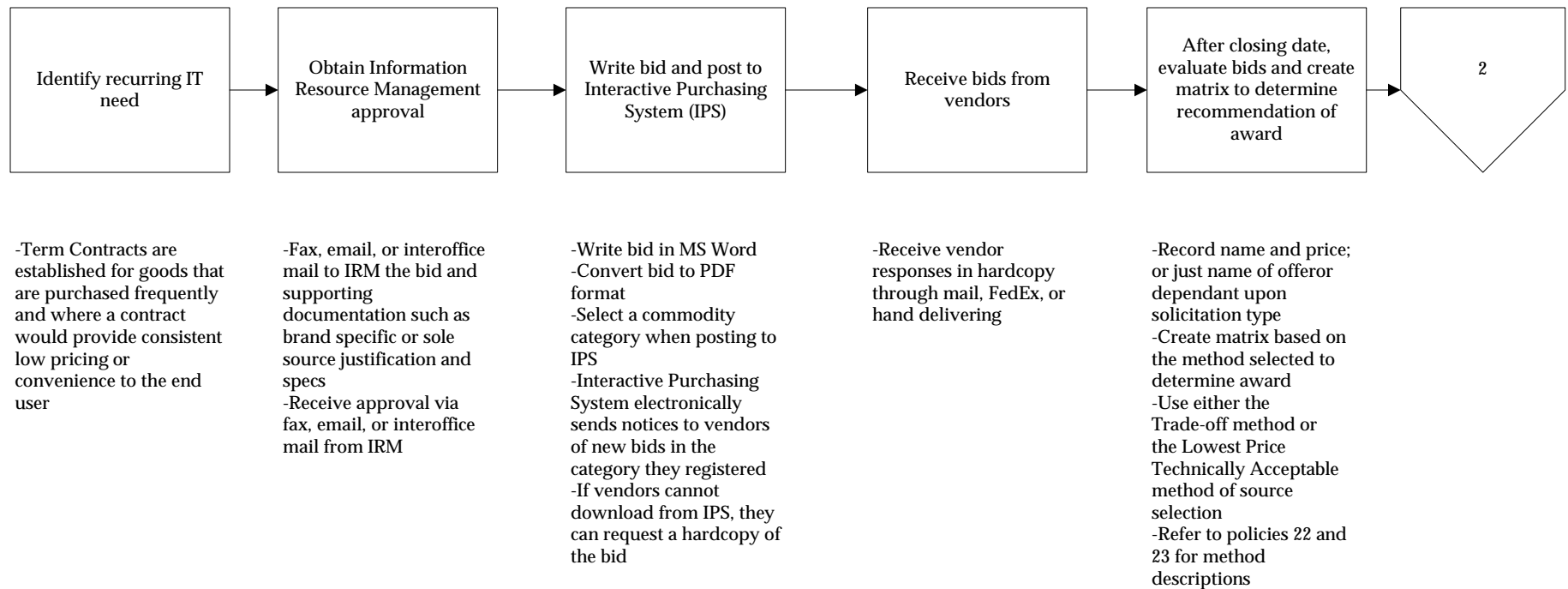




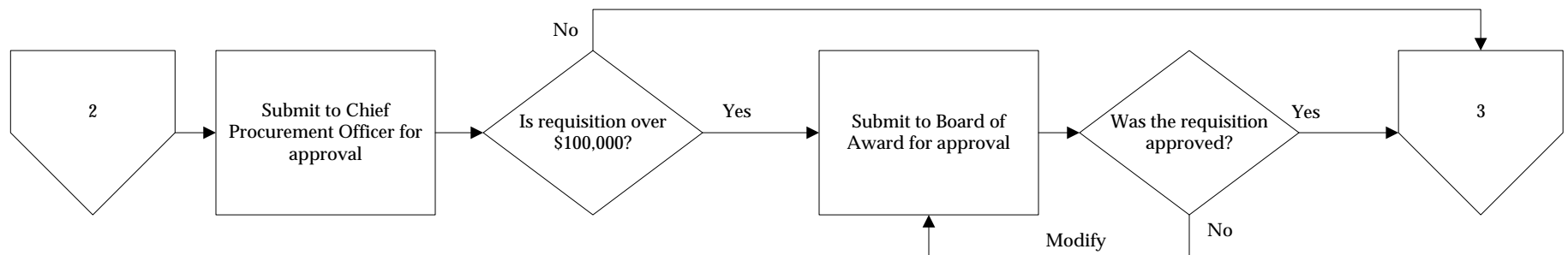
ITS Contract Specialist

Note:

- There are term contracts for IT and Non-IT goods
- ITS IT Statewide Procurement Office establishes the term contracts for IT commodities
- The Division of Purchase and Contract establishes term contracts for Non-IT commodities



ITS Contract Specialist



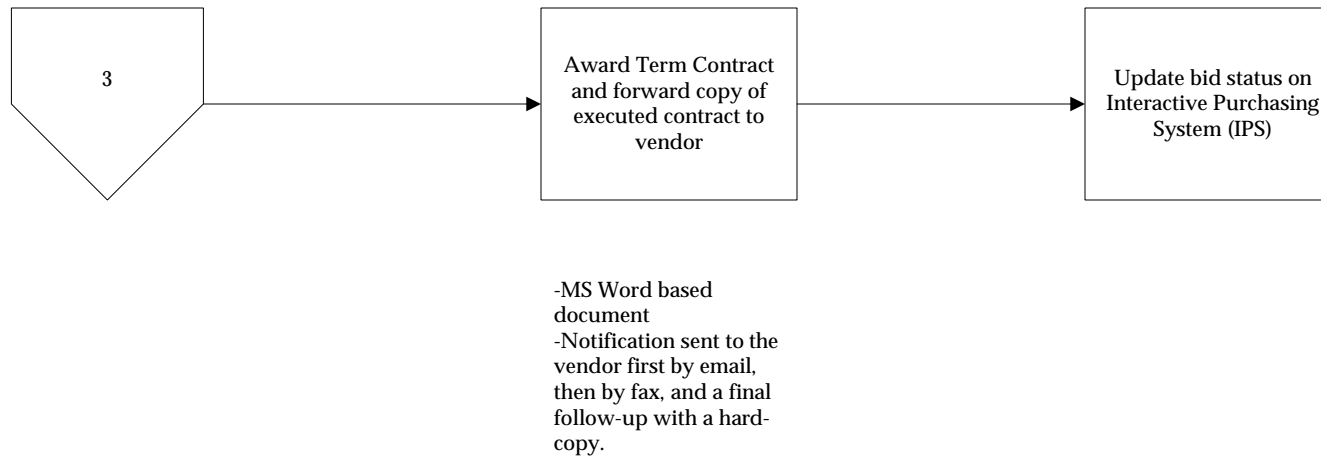
-Submit all documents to Chief Procurement Officer including approval notices, bids, matrices, letter of recommendation, and specs

-If under \$100,000 the only remaining approval comes from the Chief Procurement Officer  
 -If over \$100,000 then additional approval is required from the Board of Award  
 -If over \$100,000 and originating from the ITS agency then approval of Office of Management and Budget is required prior to submitting to the Board of Award

-Present to Board of Award; Have available if requested approval notices, bids, matrices, letter of recommendation, and specs

-If the request is not approved, it must be modified to meet approval before it can proceed the appropriate action as directed by the Board

ITS Contract Specialist



**Appendix D:**  
**Focus Group Summary and Reports**



## **SUMMARY FINDINGS**

### **Two E-Procurement Focus Groups**

**Sept. 20, 2000**

#### **Strengths of the Current Process**

The participants generally liked:

- The increased efficiency when using online systems
- The flexibility of the process
- Their own systems
- New features not previously available
- Express requisitions which provides frequent status checks
- Streamlining of invoice process which allows invoices to go directly to Accounting

#### **Weaknesses of the Current Process**

The participants generally disliked:

- Search engine limitations
- Delays in getting approvals
- Lack of external information distribution
- Using two sets of rules and forms
- High level of training required
- Lack of way to track contracts
- Specific nomenclature knowledge requirements
- Difficult navigation in some systems
- Using multiple systems
- Lack of availability of some catalogs

#### **Requirements of E-Procurement System**

The participants generally:

- Wanted the e-procurement system to follow business rules
- Wanted the ability to customize for each agency
- Wanted funding from the state
- Asked for one solution to replace all systems and integrate with backend systems

- Suggested that Purchasing have the final approval for procurement
- Wanted e-procurement to include a process to screen vendors
- Wanted options for the delivery of purchases
- Wanted increased flexibility for the ability to cancel orders after ordering

### **Overall Comments**

The participants:

- Wanted to use e-procurement as an opportunity to reengineer business processes
- Said that they do not want an additional system unless it will replace current systems
- Emphasized collaboration as a way of achieving a common solution
- Saw changes in the requester and buyer roles as mostly positive

### **Volunteers**

- Three participants (from DHHS, DOL, and Guilford county Schools) volunteered to be in the pilot

## **FOCUS GROUP REPORT**

### **Morning E-Procurement Focus Group Sept. 20, 2000**

#### **Participant Profile:**

- 12 total participants
- Work at OSC, DOL, P&C, DOT, DHHS, community college system, city or county government
- 6 buyers
- 5 manager level
- 3 men, 9 women
- Approximate age range: 30 – 50

#### **Strengths of the current process**

**Question: What are the strengths of the current process? What would you say about efficiency?**

| <b>Type of Comment</b>                                                  | <b>Specific Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strengths                                                               | <ul style="list-style-type: none"> <li>■ Part of the strengths of the current is there is enough flexibility in the current system to verify that the company is legitimate and they can provide the service requested; part of the concern with the internet is the unknown; you don't want to buy airplanes from just anyone</li> <li>■ But the process itself is wonderful</li> <li>■ Those that have started using express requisitioning now can check its status more frequently and can see where it is; if they say something is coming in hardcopy we can watch for it; we used to have this thing where they said 'we sent it out' and we said 'we did not get it'</li> <li>■ Now we get calls asking if this or that is on state contract; we have some searching with an online listing of the state contracts but we need a better, more robust searching tool</li> <li>■ Yeah you have to know the nomenclature to be able to find something</li> </ul> |
| <ul style="list-style-type: none"> <li>■ Efficiency and time</li> </ul> | <ul style="list-style-type: none"> <li>■ It's a lot more efficient than before; Before it was bringing written requisitions to P&amp;C on the first of the month; then there would be the "purchasing didn't get it until fifth, etc."; now you can go online and see when it was approved, status, and all that fuss has been removed</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## E-Procurement Due Diligence

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <ul style="list-style-type: none"><li>▪ We have a five day turnaround that we try to adhere to; we have a timeline out there on our intranet</li><li>▪ And that's a five day turn-around once it gets to her</li><li>▪ We have not experienced any real delays</li><li>▪ If it is online the turnaround works but if it is not on term contract it can take much longer</li><li>▪ There's a built in time frame for something over \$10,000 since it has to be out there for 10 days on bid; we do a lot of online bids; Some things take a long time like 180-200 days to build so if we are talking requisition to receipt then it can be a very long time</li><li>▪ That's one of the reasons we are buying the new system is it will track them</li><li>▪ We have commodities we track and see how long should it have taken; sort of some benchmarks</li><li>▪ Well that's (time frame) going to vary whether it is technical or not; it depends if they can find it somewhere for the bid or not</li><li>▪ At the university where about half of our requisitions are coming in online and the others are sent hardcopy, I see a tremendous difference in efficiency since we went online. On average, we have 5 day turnaround. We phone everything in and try to minimize our faxing or emailing. Since you spend 80% of your dollars on small purchases, we were very disappointed that the P-card did not go through. That would have saved a lot of time; I don't see how you are going to do e-procurement without the p-card. If we had the p-card, I could spend more time on big purchases like construction and not on small purchases</li></ul> |
| IPS | <ul style="list-style-type: none"><li>▪ The IPS is probably the biggest step in 30 years for procurement in the state. Other states call every day and can't believe how easy it is</li><li>▪ However, when you buy a digital camera, you get 200 bids</li><li>▪ The legislature should have put in a caveat to get out of the \$10000 requirement to put on the IPS. We had a bid for promotional supplies where we got 200 bids for pencil vendors; it took us more time to sort through it than the contract was worth</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**Weaknesses of the Existing Process**

**Question: What are your thoughts about things that don't work very well with the present process?**

| <b>Type of Comment</b> | <b>Specific Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| List of Weaknesses     | <ul style="list-style-type: none"> <li>▪ Inefficient key word search – sometimes leads to purchases off state contract</li> <li>▪ Turn-around times are often too slow because of manual processes</li> <li>▪ Multiple systems being used throughout the state – causing lack of consistency in processes, possible losses of volume discounts</li> <li>▪ Many systems not user-friendly causing inefficiencies</li> <li>▪ Two sets of rules (ITS &amp; P&amp;C)</li> <li>▪ Two sets of forms</li> <li>▪ Specification writing (help)</li> <li>▪ Work flow process not efficient</li> <li>▪ Not everyone participates</li> <li>▪ Should be one entry point</li> <li>▪ All catalogs should be available</li> <li>▪ Search engine</li> <li>▪ Excessive approvals</li> <li>▪ Ability to return requisitions split funds</li> <li>▪ Expenditures down to work order level</li> </ul> |
| Vendor screening       | <ul style="list-style-type: none"> <li>▪ Part of that is knowing if companies are legitimate. What scares me about the Internet is that you don't know. It's one of the strengths, perhaps one of the dangers of going to the Internet</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3 sets of rules        | <ul style="list-style-type: none"> <li>▪ At the community colleges, there are rules they are exempt from and some they are not. We at the DOCC office have to advise them and there are different rules we have to advise them on</li> <li>▪ I'd like to second what she said; with the addition of IT we now have three sets of rules; I have vendors who don't understand why we use different sets of rules for the same products</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## E-Procurement Due Diligence

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Delays | <ul style="list-style-type: none"><li>▪ A mechanic who needs a transmission sends something in and must go through 4 approvals. When we get it, we try to expedite it but it may have taken a long time to get to us and the user does not know this</li><li>▪ In emergencies I do anything to get what we need.</li><li>▪ In emergencies, we just go and buy it. During the hurricanes, we went to disaster areas and when something was needed we just went to the store. We did not wait around</li><li>▪ The end users don't know the process and don't understand why it takes so long</li><li>▪ They don't know what I have to do to follow the rules</li><li>▪ At P&amp;C we put out the bids and stuff, but we don't know anything about delivery - it could be 2 days or 2 months</li><li>▪ They only let you know something when they are really mad, they don't come to you along the way to help expedite things (speaking of end users)</li><li>▪ There are problems, like vendors who want a credit card number and don't want to wait for a PO</li></ul> |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Demo and Requirements Discussion

**Question: Does using e-procurement software seem to be intuitive? What do you think of the level of difficulty?**

| Type of Comment              | Specific Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Questions about the software | <ul style="list-style-type: none"><li>▪ What about specifications? How can we see that and compare?</li><li>▪ I am confused about one thing - Are you the requisitioner? Who are you?</li><li>▪ Will the system integrate with the current system?</li><li>▪ Can we change our passwords?</li><li>▪ If we are out of money, we send it to someone in Budget and find the money sometimes (switch the money or override the funds not available and wait on the money to arrive)</li><li>▪ Can you go back and look at something you have entered that has been ordered?</li><li>▪ What is the expense report?</li><li>▪ On term contracts, you have the buying information. Where do you store the boiler-plate language about warranties, etc...?</li></ul> |

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | <ul style="list-style-type: none"> <li>▪ What about electronic signatures?</li> <li>▪ Does this eliminate the IPS?</li> <li>▪ Would the system have the capability of adding our suppliers at the university?</li> <li>▪ How many line items can you add?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Usability    | <ul style="list-style-type: none"> <li>▪ Its easy to navigate</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Requirements | <ul style="list-style-type: none"> <li>▪ It goes beyond just the p-card. We need a service to screen these people (vendors) and to know they are not a scam</li> <li>▪ You've got to have interfaces back to the current system to track to a certain level? I want to know what project it went to. We have to report to the FEDs where the money went</li> <li>▪ I should be able to compare on one screen side by side the different vendors</li> <li>▪ There should be options on evaluation, like delivery time</li> <li>▪ The user should be able to see so that if there is a warranty they do not buy a service agreement</li> <li>▪ Yeah, that should be part of the side-by-side comparison</li> <li>▪ It needs to tell you the commodity code by searching when you enter the description or select the product</li> <li>▪ There are a lot of standard things available for specs now that should be online</li> <li>▪ You need the ability to cancel up to the PO being sent and even sometimes after the PO being sent. You want the ability to cancel a PO and have it not come back to you and notify you that it was cancelled</li> <li>▪ Often times on certain items, we want to be able to refuse or accept if there are differences at receipt</li> <li>▪ For some things you need an extra step to verify an inspection before paying</li> <li>▪ You need to have a place for vendor to go in and say that he sent the product</li> <li>▪ If we had people doing this it could be dangerous because they don't know the accounting or there budgets and such</li> <li>▪ With P-cards you can encode just about anything you want as restrictions</li> <li>▪ We want to be able to requisition anything under contract and select the item and then produce the order automatically if I select it; They should be able to buy from our term contracts</li> </ul> |

## E-Procurement Due Diligence

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> <li>▪ The system would work best if they type in what they want and tells them if it is on term contract; if it is not, then it will handle it if its under their delegation or tell them to go to P&amp;C if its over</li> <li>▪ The roles should change to where P&amp;C and ITS are setting up the contracts and not doing as many bids. Reengineering should be a requirement</li> <li>▪ The legislature approved that. We need an electronic lockbox to restrict access to make changes, secure submissions of bids with time stamps, no access to it until the bid opening time, etc...</li> <li>▪ You need to be able to do a keyword search t see if this is on contract. You need to be able to find “braided water hoses” under “hoses”</li> <li>▪ P-card has to be a part of this e-procurement solution</li> <li>▪ You need the ability to cancel a PO and not have it come back as a request</li> <li>▪ You have to be able to geographically reduce the number of vendors. Make the decision by area or by response time</li> </ul> |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Question: Do you think that e-procurement software can address any of the weaknesses you listed? How could software improve the purchasing process?**

| Type of Comment | Specific Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <ul style="list-style-type: none"> <li>▪ It costs us \$80 to make a PO. By allowing the freedom to buy something small, it saves that amount of money</li> <li>▪ It actually gives you greater control so that you can see if they are buying on term contract or not. I still am concerned about open market bids where you're hunting around through businesses. There are some things where we require a geographic component because of servicing so you have to be able to geographically limit the bids</li> <li>▪ So users could enter in if they received before we pay</li> <li>▪ Looking at two sets of forms, it automatically takes you to the required steps</li> <li>▪ With everybody using the same system, you improve the turn-around time</li> <li>▪ All catalogs will be available</li> </ul> |



**Potential Issues**

**Question: What would it take to put e-procurement in place?**

| <b>Type of Comment</b> | <b>Specific Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Integration            | <ul style="list-style-type: none"> <li>▪ One thing we did not see is that there are tremendous reporting capabilities to evaluate vendors (one-time, quick receipt)</li> <li>▪ DOT is in the process of replacing our core financials. To integrate with e-procurement is going to cost us an exorbitant amount of money. It is not practical for us at this point to integrate with a legacy system that is being phased out in 18 months: we don't want to have to do it twice</li> <li>▪ Is this going to integrate? The back-end system could be anything</li> <li>▪ Who decides how many systems are included?</li> <li>▪ Community Colleges have their own system; they are developing a system currently that will include purchasing information; that new system will need to interact with the e-procurement system</li> <li>▪ Do you hold a single vendor responsible for all of these interfacing</li> <li>▪ Will it have the ability to integrate with any system out there?</li> <li>▪ Is this going to be a central system where everybody will use the same database?</li> <li>▪ If all we do is automate the current system, we're missing an opportunity</li> <li>▪ Could the cataloging be statewide with the flexibility to customize for the different agency?</li> <li>▪ Assuming the community colleges are included, they would want to tailor the vendor list to local options</li> <li>▪ If you're asking what system I like, I like Oracle DB's.</li> <li>▪ Again, the flexibilities and the statutes being looked at. Instead of just blanket statements, having some thoughts and review and input</li> <li>▪</li> </ul> |
| HUB                    | <ul style="list-style-type: none"> <li>▪ Is this system going to attract minority and women owned businesses?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## E-Procurement Due Diligence

|                                        |                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resources                              | <ul style="list-style-type: none"><li>▪ Who bears the cost? Is the funding there? Who does the interface? All of these questions have to be addressed</li><li>▪ How are you going to be able to train everybody in the system?</li><li>▪ We have mechanics who order online (not Internet). That's a business decision</li></ul> |
| Collaboration and Resistance to Change | <ul style="list-style-type: none"><li>▪ Communicate clearly</li><li>▪ Training of the vendor community is also an issue; they have to have the capability to do this</li><li>▪ Show the benefits to vendors before you even mention a fee, because there will be serious negative feedback</li></ul>                             |

### Benefits

**Question: What benefits does e-procurement bring?**

| Type of Comment | Specific Comments                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System          | <ul style="list-style-type: none"><li>▪ You can comparison shop from one screen. That would be wonderful</li></ul>                                                                                                                                                                                                                                                                                                                                   |
| Change in Roles | <ul style="list-style-type: none"><li>▪ You could push some commodities, some dollar amounts down to the level of the user. You can always have purchasing be one of the approval steps</li><li>▪ There's no added value in having me go online and have a look at term contracts. If there's a term contract in place, this kind of system is going to tell you that</li><li>▪ Time would be better spent working on setting up contracts</li></ul> |

## **FOCUS GROUP REPORT**

**Afternoon E-Procurement Focus Group  
Sept. 20, 2000**

### **Participant Profile:**

- 13 total participants
- Work at DOT, DOL, OSC, DHHS, County or city government
- 4 are managers or directors
- More than half are buyers
- Approximate age range: 27 – 50
- 8 men, 7 women

### **Strengths of the current process**

**Question: What are the strengths of the current process?**

| <b>Type of Comment</b> | <b>Specific Comments</b>                                                                                                                                                                                                                                                                                            |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Process                | <ul style="list-style-type: none"><li>▪ NCAS has streamlined the invoice process – it goes directly to accounting</li><li>▪ Good integration between purchasing and inventory</li><li>▪ Process for Wake County</li></ul>                                                                                           |
| System                 | <ul style="list-style-type: none"><li>▪ Electronic requisitioning, which we did not have before</li><li>▪ Availability funds check - funds verification</li><li>▪ Online approvals</li><li>▪ Online faxing and purchase orders</li><li>▪ Online materials receipt process at DOT</li><li>▪ Robust reports</li></ul> |

### Weaknesses of the Existing Process

**Question: What are your thoughts about things that don't work very well with the present process?**

| Type of Comment              | Specific Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| List of Weaknesses           | <ul style="list-style-type: none"> <li>▪ Mainframe system</li> <li>▪ Account distribution limits</li> <li>▪ Commodity search</li> <li>▪ System modifications are expensive and have impact on others</li> <li>▪ External information distribution</li> <li>▪ Difficult to navigate</li> <li>▪ Requires extensive user training</li> <li>▪ Lack of integration</li> <li>▪ Contracts can't be tracked</li> <li>▪ Training is difficult for new employees</li> <li>▪ Problems with faxing POs</li> <li>▪ Problems with vendor lists</li> </ul> |
| Internal vs. external system | <ul style="list-style-type: none"> <li>▪ Everything is automated internally but not externally - we want to extend it outwards</li> <li>▪ There's a big concern of being able to distribute information externally as well as receive information from external systems</li> </ul>                                                                                                                                                                                                                                                          |
| System problems              | <ul style="list-style-type: none"> <li>▪ Online quote abilities are not used consistently</li> <li>▪ We would like to get receipts due to problems with faxing PO's</li> <li>▪ There are problems with duplication of vendor links (for instance a Loew's with two locations – you must know which one is local based on vendor number or name)</li> <li>▪ It's difficult to navigate – you must enter some command lines to get to where you want to go</li> <li>▪ NCAS is limited in account distribution</li> </ul>                      |
| Delays                       | <ul style="list-style-type: none"> <li>▪ Individuals cause delays - items can sit on someone's desk for days</li> <li>▪ Some of the delay is based on state rules - bids have to be out there for 10 days</li> <li>▪ P-cards should reduce delays, but we don't have permission to use them</li> <li>▪ I think a P-card would be a big benefit to smaller agencies. If we could give a card to someone it cuts down on our time required for processing the order</li> </ul>                                                                |

**Demo and Requirements Discussion**

**Question: Does using e-procurement software seem to be intuitive? What do you think of the level of difficulty?**

| Type of Comment              | Specific Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Questions about the software | <ul style="list-style-type: none"> <li>▪ It verifies that the splitting of funds all hit a valid fund?</li> <li>▪ Will the system handle individual entities needs or is it based on state dictates?</li> <li>▪ Is the system set up to have a differentiating number system by agency - instead of PR25, then PR26, then PR27?</li> <li>▪ How can we be assured that this will work with all legacy financial systems?</li> <li>▪ What will happen if an item is supplied by only one vendor?</li> <li>▪ What if someone goes out to NCAS and creates the requisition as well as using the e-procurement system?</li> <li>▪ How would you get a cross-reference back to the inventory that DOT is gathering?</li> <li>▪ What security features will stop an unauthorized person from receiving quotes</li> <li>▪ Can e-procurement be configured to use a different system to handle the odd items that e-procurement cannot handle?</li> <li>▪ Would the system already have vendors entered or will it be necessary for the state to enter this information?</li> <li>▪ Can IPS be interfaced with this software?</li> <li>▪ Can you have local approval and different levels of approval?</li> <li>▪ Is the requisition numbered automatically?</li> <li>▪ Is this part of e-forms?</li> <li>▪ How do you get vendors (or products) not on the system?</li> <li>▪ Is there an internal numbering scheme?</li> <li>▪ Can non-catalog items be added?</li> <li>▪ It would be nice to have one point of entry.</li> </ul> |
| Requirements                 | <ul style="list-style-type: none"> <li>▪ Does the system notify the budget person if there are not sufficient funds? (Should be a requirement)</li> <li>▪ Indicate whether the vendor received the PO</li> <li>▪ DOT has a need of driving costs down to the detail of projects</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## E-Procurement Due Diligence

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"><li>▪ It should let them know if someone has not approved the order in 5 days</li><li>▪ The integration is very important. Having P&amp;C and ITS connected would be good</li><li>▪ It would have to integrate with SAP</li><li>▪ The system needs to handle business rules</li><li>▪ You can't get rid of NCAS because of vendors who are not on the web</li><li>▪ We need to be able to create a paper based system that would be able to print a PO and sent to a vendor</li><li>▪ It must be configured at the agency level</li><li>▪ Approval is needed before it is even put out to quote; we need that functionality</li><li>▪ I don't want to see other people's requisitions</li><li>▪ It's very important to be able to page back in the system</li></ul> |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Question: Do you think that e-procurement software can address any of the weaknesses you listed? How could software improve the purchasing process?**

| Type of Comment | Specific Comments                                                                                                                                                                       |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <ul style="list-style-type: none"><li>▪ Different levels of purchasing with this system</li><li>▪ I (buyer) could be the final approver</li><li>▪ Would this get rid of NCAS?</li></ul> |

**Potential Issues**

**Question: What would it take to put e-procurement in place?**

| <b>Type of Comment</b>                 | <b>Specific Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Integration                            | <ul style="list-style-type: none"> <li>Integration with the existing system. There is a huge amount of info that has to be converted to attract vendors</li> <li>Will this be a replacement of NCAS purchasing or merely supplemental? If we still have to use the old system as well, it would be a huge disadvantage - you have to maintain expertise in more than one system</li> <li>Someone is going to have to own the data and make sure it is updated (managing the system)</li> <li>It would have to be completely integrated with the reporting capability that needs to be given to state and FED</li> </ul> |
| Reengineering                          | <ul style="list-style-type: none"> <li>A thorough review of the statutes and requirements must be done because this will drastically impact them</li> <li>The State needs a process to screen vendors</li> <li>All of NCAS needs to be updated and as we look at e-procurement we need to look at the whole thing and not just the purchasing portion</li> <li>Are they considering having IPS set up to receive quotes from the vendors online?</li> <li>Would it make more sense to have a vendor's term contract last for several years to make it more worthwhile to get the catalog online?</li> </ul>             |
| Resources                              | <ul style="list-style-type: none"> <li>Is this going to require more resources from me to configure this thing?</li> <li>How would integration be funded?</li> <li>Who's going to pay for this?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                              |
| Collaboration and Resistance to Change | <ul style="list-style-type: none"> <li>Configuring to the agency's needs - they don't want to change the way they have been doing it for years</li> <li>There are so many systems and some people don't want to move over to the new program</li> <li>Make sure you include all of the departments that will be using the system in the decision making process so it is accepted</li> <li>There are a lot of states that use e-procurement - are you modeling after some other state?</li> <li>You need to make sure not to oversell it as the solution to all</li> </ul>                                              |

|  |                                                                                                                                                                   |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>of our problems</p> <ul style="list-style-type: none"><li>▪ I agree to an extent; I think, though, that it can be made to be everything to everybody</li></ul> |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Benefits

#### Question: What benefits does e-procurement bring?

| Type of Comment | Specific Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Software        | <ul style="list-style-type: none"><li>▪ I want to do everything electronically with the vendors but we at least want to be able to get it out to these guys (vendors who are not on the web) and pick and choose the method (emailing, mass mailing); and get everything tied back to that one bid</li><li>▪ I would also like to see a commonality of some of the systems, like here in Raleigh there are a lot of entities</li></ul>                                                                                                                           |
| Change in Roles | <ul style="list-style-type: none"><li>▪ I like the idea of giving the requisitioner the access to go out and get their own quotes</li><li>▪ The role of the purchasing becomes less on the transactional side and more on the negotiating deals and creating contracts side</li><li>▪ The implementation of NCAS has broadened the scope of the purchaser/buyer role</li><li>▪ It's the old 20/80 rule: 20% of the purchases are taking 80% of your time. This could free you up to develop vendor partnerships, negotiate, get best value-added deals</li></ul> |



**Appendix E:**  
**Ariba/Epylon Response to Functional Requirements**

## Vendor Record Requirements

Vendor functionality requirements:

| Number | Business Requirement                                                                                                                                         | Can you comply with this requirement? |    |                                                                              |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                                                                              | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 1-F.1  | Vendors database is shared by all agencies and other using entities                                                                                          | √                                     |    |                                                                              |
| 1-F.3  | Can search for vendors online by HUB category, commodities also SIC codes, location, key word, contact, county, city – with drill down/refining capabilities | √                                     |    |                                                                              |
| 1-F.4  | Allow vendor to self-register and update online (secured access)                                                                                             | √                                     |    |                                                                              |
| 1-F.5  | Allow vendors to be automatically reviewed, activated, and inactivated centrally                                                                             | √                                     |    |                                                                              |
| 1-F.6  | Vendors can have multiple addresses and profiles, but single entity identification                                                                           | √                                     |    |                                                                              |
| 1-F.7  | Vendor performance measurement tools (price, quality, delivery, etc)                                                                                         | √                                     |    |                                                                              |
| 1-F.8  | Ability to view vendor status online (last registration date, debarred date, etc.)                                                                           | √                                     |    |                                                                              |

## Vendor Record Requirements

Vendor data requirements:

| Number | Business Requirement                                                           | Can you comply with this requirement? |    |                                                                                                                                                       |
|--------|--------------------------------------------------------------------------------|---------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                                                          |
| 1-D.1  | Vendor name                                                                    | √                                     |    |                                                                                                                                                       |
| 1-D.2  | Order-from and remit-to addresses, etc.                                        | √                                     |    |                                                                                                                                                       |
| 1-D.3  | Fax number by location                                                         | √                                     |    |                                                                                                                                                       |
| 1-D.4  | Phone number by location                                                       | √                                     |    |                                                                                                                                                       |
| 1-D.5  | E-mail address by location                                                     | √                                     |    |                                                                                                                                                       |
| 1-D.6  | Contact name by location                                                       | √                                     |    |                                                                                                                                                       |
| 1-D.7  | Standard payment terms                                                         | √                                     |    | Payment information is not typically maintained within Ariba, however the solution can be extended during the implementation to meet this requirement |
| 1-D.8  | Vendor order-from county                                                       | √                                     |    | See 1-D.7                                                                                                                                             |
| 1-D.9  | Vendor remit-to county                                                         | √                                     |    | See 1-D.7                                                                                                                                             |
| 1-D.10 | HUB categories                                                                 | √                                     |    |                                                                                                                                                       |
| 1-D.11 | Government category (state/local/federal/university/SAU)                       | √                                     |    |                                                                                                                                                       |
| 1-D.12 | Last update date                                                               | √                                     |    |                                                                                                                                                       |
| 1-D.13 | 1099 eligibility (individual/partnership/sole proprietorship/medical provider) | √                                     |    | See 1-D.7                                                                                                                                             |

## Vendor Record Requirements

| Number | Business Requirement                                                  | Can you comply with this requirement? |    |                                                                              |
|--------|-----------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                       | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 1-D.14 | 1099 name (if different from payee name)                              | √                                     |    | See 1-D.7                                                                    |
| 1-D.15 | Federal ID/Social security number                                     | √                                     |    |                                                                              |
| 1-D.16 | Bank account number/type/routing code (secured from view & reporting) | √                                     |    | See 1-D.7                                                                    |
| 1-D.17 | Commodity association (NIGP/UNSPSC) by location                       | √                                     |    |                                                                              |
| 1-D.18 | URL (Web address)                                                     | √                                     |    |                                                                              |
| 1-D.19 | Number of employees (cross reference to business type)                | √                                     |    |                                                                              |
| 1-D.20 | Annual sales (cross reference to business type)                       | √                                     |    |                                                                              |
| 1-D.21 | SIC code(s)                                                           | √                                     |    |                                                                              |
| 1-D.22 | Business type (retail, wholesale, manufacturing, services)            | √                                     |    |                                                                              |
| 1-D.23 | Bondable or Bonding History                                           | √                                     |    | See 1-D.7                                                                    |
| 1-D.24 | Withholding information                                               | √                                     |    | See 1-D.7                                                                    |

## Vendor Record Requirements

Vendor reporting requirements (ad hoc and prepared):

| Number | Business Requirement                                              | Can you comply with this requirement? |    |                                                                                       |
|--------|-------------------------------------------------------------------|---------------------------------------|----|---------------------------------------------------------------------------------------|
|        |                                                                   | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.          |
| 1-R.1  | Vendor listing by category (HUB, government, etc.)                | √                                     |    | New reports can be created to support this specific requirement during implementation |
| 1-R.2  | Vendor listing by commodity                                       | √                                     |    | New reports can be created to support this specific requirement during implementation |
| 1-R.3  | Commodity listing by vendor                                       | √                                     |    | New reports can be created to support this specific requirement during implementation |
| 1-R.4  | Small business listing                                            | √                                     |    | New reports can be created to support this specific requirement during implementation |
| 1-R.5  | Vendor history summary (number of transactions and total dollars) | √                                     |    |                                                                                       |
| 1-R.6  | HUB reporting                                                     | √                                     |    | New reports can be created to support this specific requirement during implementation |
| 1-R.7  | Ad hoc vendor reporting                                           | √                                     |    |                                                                                       |
| 1-R.8  | Vendor performance tracking                                       | √                                     |    |                                                                                       |

## Item Catalog Record Requirements

Item/Catalog functionality requirements:

| Number | Business Requirement                                                                                                           | Can you comply with this requirement? |    |                                                                              |
|--------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                                                | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 2-F.1  | Catalogs should be managed by the software vendor or by a third party                                                          | √                                     |    |                                                                              |
| 2-F.2  | Catalogs should be able to include pictures and detailed specifications                                                        | √                                     |    |                                                                              |
| 2-F.3  | Vendors should be able to get catalog formation help from vendor/manager                                                       | √                                     |    |                                                                              |
| 2-F.4  | Catalog updating is easy for vendors                                                                                           | √                                     |    |                                                                              |
| 2-F.5  | Vendors cannot raise catalog prices for term contract items without State contract manager approval                            | √                                     |    |                                                                              |
| 2-F.6  | Effective cross-vendor search by commodity or alpha provided by catalog manager (compare prices for like items across vendors) | √                                     |    |                                                                              |
| 2-F.7  | Access to catalogs controlled by item /commodity /vendor /agency / requester /term contract/ or other business rule            | √                                     |    |                                                                              |
| 2-F.8  | Item identification with commodity code(s) (NIGP/UNSPSC)                                                                       | √                                     |    |                                                                              |
| 2-F.9  | Complex alpha search capability – by manufacturer, etc                                                                         | √                                     |    |                                                                              |
| 2-F.10 | Ability to make an item active/inactive centrally                                                                              | √                                     |    |                                                                              |
| 2-F.11 | On line, real time catalog update and maintenance capabilities                                                                 | √                                     |    |                                                                              |

## Item Catalog Record Requirements

Item/Catalog data requirements:

| Number               | Business Requirement                                                                                                        | Can you comply with this requirement? |    |                                                                                                                                                                                                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                                                                                                             | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                                                                                                                                                                                  |
| 2-D.1                | Items associated with standard units of measure (stock keeping unit, issuing, purchasing, and paying units may be required) | √                                     |    |                                                                                                                                                                                                                                                                               |
| 2-D.2<br>(work flow) | Items associated with specified agency buyer based on commodity type for workflow rules                                     | √                                     |    |                                                                                                                                                                                                                                                                               |
| 2-D.3                | Items associated with commodity code (NIGP/UNSPSC), as well as vendor's stock number                                        | √                                     |    |                                                                                                                                                                                                                                                                               |
| 2-D.4                | Items associated with multiple alpha search codes                                                                           | √                                     |    |                                                                                                                                                                                                                                                                               |
| 2-D.5                | Term, agency-specific, and convenience contract indicators                                                                  | √                                     |    | Extrinsic*<br><br>*An <b>extrinsic</b> is a data element added to the solution's off-the-shelf object model. This is a simple configuration task performed often in every Ariba implementation. Like other configuration tasks, it does not impact the base code or upgrades. |
| 2-D.6                | Recycled content indicator                                                                                                  | √                                     |    | Extrinsic                                                                                                                                                                                                                                                                     |
| 2-D.7                | Goods versus services indicator                                                                                             | √                                     |    | Extrinsic                                                                                                                                                                                                                                                                     |
| 2-D.8                | Accounting key default                                                                                                      | √                                     |    |                                                                                                                                                                                                                                                                               |
| 2-D.9                | Items associated with manufacturer's item number                                                                            | √                                     |    |                                                                                                                                                                                                                                                                               |

## Item Catalog Record Requirements

| Number | Business Requirement                                                               | Can you comply with this requirement? |    |                                                                                           |
|--------|------------------------------------------------------------------------------------|---------------------------------------|----|-------------------------------------------------------------------------------------------|
|        |                                                                                    | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.              |
| 2-D.10 | Ability to create kit (bundle) item numbers that include multiple individual items | √                                     |    | The solution can be configured to support this specific requirement during implementation |
| 2-D.11 | Ability to apply commodity code/categories to non-catalog transactions             | √                                     |    |                                                                                           |
| 2-D.12 | Standard payment terms                                                             | √                                     |    | Extrinsic                                                                                 |
| 2-D.13 | FOB/Freight terms                                                                  | √                                     |    | Extrinsic                                                                                 |
| 2-D.14 | Product qualification                                                              | √                                     |    | Extrinsic                                                                                 |

Item reporting requirements:

| Number | Business Requirement                                                   | Can you comply with this requirement? |    |                                                                                       |
|--------|------------------------------------------------------------------------|---------------------------------------|----|---------------------------------------------------------------------------------------|
|        |                                                                        | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.          |
| 2-R.1  | Term contract item listing by commodity group and term contract number | √                                     |    | New reports can be created to support this specific requirement during implementation |
| 2-R.2  | Listing of catalog goods versus services                               | √                                     |    | New reports can be created to support this specific requirement during implementation |
| 2-R.3  | Recycled goods listing by commodity group                              | √                                     |    | New reports can be created to support this specific requirement during implementation |



## Item Catalog Record Requirements

|       |                                                                 |   |  |                                                                                       |
|-------|-----------------------------------------------------------------|---|--|---------------------------------------------------------------------------------------|
| 2-R.4 | Listing of items/commodities assigned to agency buyers          | √ |  | New reports can be created to support this specific requirement during implementation |
| 2-R.5 | Listing of HUB vendors by item/commodities they supply          | √ |  | New reports can be created to support this specific requirement during implementation |
| 2-R.6 | Summary by item/commodity of number of transactions and dollars | √ |  |                                                                                       |
| 2-R.7 | Ad hoc reporting                                                | √ |  |                                                                                       |

Requisitioner requirements:

| Number               | Business Requirement                                                                                                                                                                             | Can you comply with this requirement? |    |                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|                      |                                                                                                                                                                                                  | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 3-R.1                | Requesters must be linked to agency/division                                                                                                                                                     | √                                     |    |                                                                              |
| 3-R.2<br>(work flow) | Ability to create complex, commodity specific, requester-dependent approval routings unique by agency                                                                                            | √                                     |    |                                                                              |
| 3-R.3                | Requester record includes name, address, phone, fax, e-mail, agency url, default approval routing, default ship-to location, default key accounting elements, procurement card information, etc. | √                                     |    |                                                                              |
| 3-R.4                | Ability to restrict requester activity to dollar limit, specific commodities, account keys, or other elements of the user profile                                                                | √                                     |    |                                                                              |
| 3-R.5                | Ability to activate/inactivate requesters centrally within the agency                                                                                                                            | √                                     |    |                                                                              |

## Requisitioner, Approver and Buyer Requirements

Approver requirements:

| Number | Business Requirement                                                                                 | Can you comply with this requirement? |    |                                                                              |
|--------|------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                      | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 3-A.1  | Approvers must be linked to agency/division                                                          | √                                     |    |                                                                              |
| 3-A.2  | Approver record includes name, address, phone, fax, e-mail, agency url and other contact information | √                                     |    |                                                                              |
| 3-A.3  | Choice of routing approvals sequentially or concurrently                                             | √                                     |    |                                                                              |
| 3-A.4  | Ability to delegate approval authority for absent approvers                                          | √                                     |    |                                                                              |
| 3-A.5  | Workflow notification                                                                                | √                                     |    |                                                                              |
| 3-A.6  | Ability to activate/inactivate approvers centrally                                                   | √                                     |    |                                                                              |

Buyer requirements:

| Number | Business Requirement                                                              | Can you comply with this requirement? |    |                                                                              |
|--------|-----------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                   | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 3-B.1  | Buyers must be linked to agency/division                                          | √                                     |    |                                                                              |
| 3-B.2  | Ability to link buyers and commodities, so requisitions can be routed accordingly | √                                     |    |                                                                              |
| 3-B.3  | Buyer record includes name, address, phone, fax, e-mail,                          | √                                     |    |                                                                              |

## Requisitioner, Approver and Buyer Requirements

| Number | Business Requirement                                                                              | Can you comply with this requirement? |    |                                                                              |
|--------|---------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                   | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
|        | agency url, default approval routing, etc.                                                        |                                       |    |                                                                              |
| 3-B.4  | Ability to restrict buyer activity to dollar limit, specific commodities, or other business rules | √                                     |    |                                                                              |
| 3-B.5  | Ability to activate/inactivate buyers centrally                                                   | √                                     |    |                                                                              |

## Shipping, Tax and Agency Requirements

Shipping, freight and terms requirements:

| Number | Business Requirement                                          | Can you comply with this requirement? |    |                                                                                           |
|--------|---------------------------------------------------------------|---------------------------------------|----|-------------------------------------------------------------------------------------------|
|        |                                                               | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.              |
| 3-S.1  | Unlimited ship-to locations                                   | √                                     |    |                                                                                           |
| 3-S.2  | Ship-via records                                              | √                                     |    | Extrinsic                                                                                 |
| 3-S.3  | f.o.b. records                                                | √                                     |    |                                                                                           |
| 3-S.4  | Payment terms file must be usable in AP as well as purchasing | √                                     |    | The solution can be configured to support this specific requirement during implementation |

Tax requirements:

| Number | Business Requirement                                                                | Can you comply with this requirement? |    |                                                                                                                                                                                                                                                           |
|--------|-------------------------------------------------------------------------------------|---------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                     | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                                                                                                                                                              |
| 3-T.1  | Tax rate file must allow automatic calculation of tax amounts based on applied rate | √                                     |    | The solution's tax computation capability relies on a backend tax processing product from Taxware. The APIs used in this integration are pre-configured for Taxware, but can also be used in conjunction with other tax products should the State desire. |

## Shipping, Tax and Agency Requirements

|       |                                                                                                         |   |  |                               |
|-------|---------------------------------------------------------------------------------------------------------|---|--|-------------------------------|
| 3-T.2 | Tax file must contain the breakdown between state versus local portions of taxes for required reporting | √ |  | Please note comments in 3-T.1 |
|-------|---------------------------------------------------------------------------------------------------------|---|--|-------------------------------|

Agency requirements:

| Number | Business Requirement                                                                          | Can you comply with this requirement? |    |                                                                              |
|--------|-----------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                               | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 3-G.1  | Agency record includes name, federal ID number, address, phone, fax, e-mail, agency url, etc. | √                                     |    |                                                                              |
| 3-G.2  | 1099 transmitter control number                                                               | √                                     |    | Extrinsic                                                                    |
| 3-G.3  | Procurement card (ghost card) information                                                     | √                                     |    |                                                                              |
| 3-G.4  | Requisition and purchase order default number range                                           | √                                     |    |                                                                              |
| 3-G.5  | Tax exemption                                                                                 | √                                     |    |                                                                              |

## Requisitioning Approval Requirements

Requisition functionality requirements:

| Number | Business Requirement                                                                                                                                                                                                                                                                                                                                    | Can you comply with this requirement? |    |                                                                              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                                                                                                                                         | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 4-F.1  | Requisition numbers should be able to be assigned automatically by the system.                                                                                                                                                                                                                                                                          | √                                     |    |                                                                              |
| 4-F.2  | Catalog transactions must have the ability via workflow to bypass the buyer if applicable. Either the requisition itself, once approval and funds checking are complete, must be sent directly to the vendor electronically, or a purchase order must be created automatically and electronically sent to the vendor without intervention by the buyer. | √                                     |    |                                                                              |
| 4-F.3  | System should be able to handle requisitions for both catalog items and non-catalog goods and services on the same requisition, and must be able to route them differently.                                                                                                                                                                             | √                                     |    |                                                                              |
| 4-F.4  | System must be able to distinguish an inventory replenishment transaction, so that legacy system inventory records can be updated.                                                                                                                                                                                                                      | √                                     |    |                                                                              |
| 4-F.5  | System requisitions must integrate with system purchase orders, with all appropriate information carried forward and converted.                                                                                                                                                                                                                         | √                                     |    |                                                                              |
| 4-F.6  | System must be capable of processing each line of a requisition independently. Therefore, each line must have its own ship-to address, accounting distribution, required date, warehouse indicator, approval routing, project code, etc.                                                                                                                | √                                     |    |                                                                              |

## Requisitioning Approval Requirements

| Number | Business Requirement                                                                                                                                                                                                                                               | Can you comply with this requirement? |    |                                                                                                                                                                                                                                                                                                                                                                                             |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                                                    | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                                                                                                                                                                                                                                                                                                |
| 4-F.7  | Must integrate or interface with funds checking and encumbrance accounting requirements, including validation of accounting distributions including at a minimum NCAS.                                                                                             | √                                     |    |                                                                                                                                                                                                                                                                                                                                                                                             |
| 4-F.8  | In addition to item description, the requester must be able to attach pictures, drawings and complete specifications to the requisition line (in the lowest technology available), which in turn can be passed to a buyer or converted to a solicitation document. | √                                     |    |                                                                                                                                                                                                                                                                                                                                                                                             |
| 4-F.9  | System must allow a single requisition line to be split to multiple accounting distributions.                                                                                                                                                                      | √                                     |    |                                                                                                                                                                                                                                                                                                                                                                                             |
| 4-F.10 | For catalog items, requesters should get immediate feedback if the vendor cannot supply the entire quantity ordered, allowing the requester to cancel part of the order and place it with another supplier.                                                        | √                                     |    |                                                                                                                                                                                                                                                                                                                                                                                             |
| 4-F.11 | Ability to designate a blanket purchase order against which the requisition line will be released.                                                                                                                                                                 | √                                     |    | <p>The solution can be configured to support this specific requirement during implementation by creating a new table, custom eForm, and change for maintaining blanket purchase order balance to the SubmitHook API.</p> <p>This functionality has been added for several Ariba clients and is targeted to be incorporated into the baseline product functionality by end-of-year 2001.</p> |

## Requisitioning Approval Requirements

| Number | Business Requirement                                               | Can you comply with this requirement? |    |                                                                              |
|--------|--------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                    | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 4-F.12 | Must have online view of status, such as approval, backorder, etc. | √                                     |    |                                                                              |
| 4-F.13 | Must be able to see a history of approvals, line changes, etc.     | √                                     |    |                                                                              |



## Requisitioning Approval Requirements

Requisition data requirements:

| Number | Business Requirement                                                                                                                      | Can you comply with this requirement? |    |                                                                              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                                                           | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 4-D.1  | Requester identification                                                                                                                  | √                                     |    |                                                                              |
| 4-D.2  | Unique Requisition Number                                                                                                                 | √                                     |    |                                                                              |
| 4-D.3  | Unique Requisition Line Number                                                                                                            | √                                     |    |                                                                              |
| 4-D.4  | Item identification number                                                                                                                | √                                     |    |                                                                              |
| 4-D.5  | Item description                                                                                                                          | √                                     |    |                                                                              |
| 4-D.6  | Commodity code                                                                                                                            | √                                     |    |                                                                              |
| 4-D.7  | Vendor's/manufacture's item identification number                                                                                         | √                                     |    |                                                                              |
| 4-D.8  | Attachment (drawing, picture, etc.) file name                                                                                             | √                                     |    |                                                                              |
| 4-D.9  | Destination blanket order number                                                                                                          | √                                     |    | Please see comment for 4-F.11                                                |
| 4-D.10 | Quantity (allowing at least two decimal places) <b>(This will cause interface problems with NCAS quantities, which allow no decimals)</b> | √                                     |    |                                                                              |
| 4-D.11 | Units of measure (UOM) – allow for alternate units of measure or conversion                                                               | √                                     |    |                                                                              |

## Requisitioning Approval Requirements

| Number | Business Requirement                                                        | Can you comply with this requirement? |    |                                                                                     |
|--------|-----------------------------------------------------------------------------|---------------------------------------|----|-------------------------------------------------------------------------------------|
|        |                                                                             | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.        |
| 4-D.12 | Price per UOM                                                               | √                                     |    |                                                                                     |
| 4-D.13 | Tax and freight, if applicable                                              | √                                     |    | Ariba 7.0 does not currently calculate shipping costs, but can be altered to do so. |
| 4-D.14 | Accounting distribution                                                     | √                                     |    |                                                                                     |
| 4-D.15 | Project indicator                                                           | √                                     |    |                                                                                     |
| 4-D.16 | Work order number                                                           | √                                     |    |                                                                                     |
| 4-D.17 | Ship-to address indicator                                                   | √                                     |    |                                                                                     |
| 4-D.18 | Required date                                                               | √                                     |    |                                                                                     |
| 4-D.19 | Warehouse identifier (for legacy system warehouse transactions)             | √                                     |    | Extrinsic                                                                           |
| 4-D.20 | Term contract number for catalog items                                      | √                                     |    | Extrinsic                                                                           |
| 4-D.21 | Vendor identification                                                       | √                                     |    |                                                                                     |
| 4-D.22 | Future posting indicator (for items to be purchased with next year's funds) | √                                     |    | Extrinsic                                                                           |
| 4-D.23 | ID of buyer to whom non-catalog requisition is directed                     | √                                     |    |                                                                                     |

## Requisitioning Approval Requirements

| Number | Business Requirement            | Can you comply with this requirement? |    |                                                                              |
|--------|---------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                 | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 4-D.24 | Requisition entry date          | √                                     |    |                                                                              |
| 4-D.25 | Requisition final approval date | √                                     |    |                                                                              |

Requisition reporting requirements:

| Number | Business Requirement                                            | Can you comply with this requirement? |    |                                                                                               |
|--------|-----------------------------------------------------------------|---------------------------------------|----|-----------------------------------------------------------------------------------------------|
|        |                                                                 | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                  |
| 4-R.1  | Open requisitions aging report                                  | √                                     |    |                                                                                               |
| 4-R.2  | Unapproved requisitions report by approver ID                   | √                                     |    |                                                                                               |
| 4-R.3  | Open requisitions (NCAS commitments) by accounting distribution | √                                     |    | Existing reports can be configured to support this specific requirement during implementation |
| 4-R.4  | Backordered requisitions line items by requester and commodity  | √                                     |    | Existing reports can be configured to support this specific requirement during implementation |
| 4-R.5  | Open and historic requisitions by project and work order code   | √                                     |    | Existing reports can be configured to support this specific requirement during implementation |

## Requisitioning Approval Requirements

| Number | Business Requirement | Can you comply with this requirement? |    |                                                                              |
|--------|----------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                      | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 4-R.6  | Ad hoc reporting     | √                                     |    |                                                                              |

Requisition approval functionality requirements:

| Number | Business Requirement                                                                                                                                                                                                                         | Can you comply with this requirement? |    |                                                                                                                                                                                                                                                                                                                                                                                          |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                              | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                                                                                                                                                                                                                                                                                             |
| 5-F.1  | Must support workflow notification by e-mail for approvals for both catalog and non-catalog requisitions. This includes notifying the approver of pending requisitions, as well as notifying the requester when approval has been completed. | √                                     |    |                                                                                                                                                                                                                                                                                                                                                                                          |
| 5-F.2  | Business rules must support workflow approval routing based on any combination of agency/requester, item/commodity, accounting distribution, project/work order, etc.                                                                        | √                                     |    |                                                                                                                                                                                                                                                                                                                                                                                          |
| 5-F.3  | Approvers must have the ability to reject, as well as approve, individual requisition lines, and must be able to impart explanatory comments to the requester.                                                                               | √                                     |    | Any approver can make explanatory comments upon approving or rejecting a request. However, as delivered, the approvals themselves are applied at the header level, not by line. (Please note that the solution indicates to the approver which line(s) they are being asked to approve.) It is possible to alter the solution to perform line-level approval as has been done with Ariba |

## Requisitioning Approval Requirements

| Number | Business Requirement                                                            | Can you comply with this requirement? |    |                                                                              |
|--------|---------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                 | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
|        |                                                                                 |                                       |    | clients, but we do not recommend this.                                       |
| 5-F.4  | System must allow for alternative approver in the absence of standard approver. | √                                     |    |                                                                              |
| 5-F.5  | Must have on-line approval status inquiry                                       | √                                     |    |                                                                              |
| 5-F.6  | Must be able to see approval history for requisitions (time/date/approver)      | √                                     |    |                                                                              |
| 5-F.7  | If a requisition is changed, it should go through the approval process again    | √                                     |    |                                                                              |

Requisition approval data requirements:

| Number | Business Requirement           | Can you comply with this requirement? |    |                                                                              |
|--------|--------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 5-D.1  | Approved / Denied indicator    | √                                     |    |                                                                              |
| 5-D.2  | Dates for each approver action | √                                     |    |                                                                              |
| 5-D.3  | Approver ID's                  | √                                     |    |                                                                              |
| 5-D.4  | Approval comments              | √                                     |    |                                                                              |

## Requisitioning Approval Requirements

| Number | Business Requirement                                                                                 | Can you comply with this requirement? |    |                                                                              |
|--------|------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                      | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 5-D.5  | Approver actions history (line changes, additions, deletions, accounting distribution changes, etc.) | √                                     |    |                                                                              |

## Requisitioning Approval Requirements

Requisition approval reporting requirements:

| Number | Business Requirement                        | Can you comply with this requirement? |    |                                                                                       |
|--------|---------------------------------------------|---------------------------------------|----|---------------------------------------------------------------------------------------|
|        |                                             | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.          |
| 5-R.1  | Aged unapproved requisitions by approver ID | √                                     |    |                                                                                       |
| 5-R.2  | Days to approve by approver ID (cycle time) | √                                     |    | New reports can be created to support this specific requirement during implementation |
| 5-R.3  | Ad hoc                                      | √                                     |    |                                                                                       |

Funds checking and encumbrance functionality requirements:

| Number | Business Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                            | Can you comply with this requirement? |    |                                                                                                                                                        |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                                                           |
| 6-F.1  | Funds must be checked (ideally real-time) before transactions can be released to vendors. If possible, funds will be checked against legacy systems' available funds file, which requires encumbrances and unencumbrances to be posted as transactions progress. Otherwise, the eProcurement system must carry and recalculate (real-time) balances for all distributions. Even so, encumbrances must be recorded in the legacy system for accounting purposes. | √                                     |    | All funds check and encumbrance functionality will be custom configured using the standard Ariba APIs based on requirements during the implementation. |

## Funds Checking and Encumbrance Requirements

| Number | Business Requirement                                                                                                                                                                                                                                                                                                        | Can you comply with this requirement? |    |                                                                              |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                                                                                                             | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 6-F.2  | For fixed price (catalog) transactions, funds checking need only occur once, before the requisition/purchase order is sent electronically to the vendor. For all other transactions, funds checking must occur at each level of commitment where a cost change might occur (requisition, purchase order and invoice entry). | √                                     |    |                                                                              |
| 6-F.3  | Requester must know immediately if transaction fails funds checking and by how much                                                                                                                                                                                                                                         | √                                     |    |                                                                              |
| 6-F.4  | Workflow must notify a designated agency budget officer of funds checking failure, and must provide a means of overriding stoppage of the transaction.                                                                                                                                                                      | √                                     |    |                                                                              |
| 6-F.5  | Encumbrances created in the legacy system, either via purchase order, invoice or journal entry, must be relieved as the transaction progresses from order through payment. This must be able to be done partially.                                                                                                          | √                                     |    |                                                                              |



## Funds Checking and Encumbrance Requirements

Funds checking and encumbrance data requirements:

| Number | Business Requirement                                                                                             | Can you comply with this requirement? |    |                                                                              |
|--------|------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                                  | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 6-D.1  | Elements required by legacy system file layouts for purchase orders, invoices, payments, and/or journal entries. | √                                     |    |                                                                              |
| 6-D.2  | Funds exception indicator of some kind on the transaction                                                        | √                                     |    |                                                                              |

Funds checking and encumbrance reporting requirements:

| Number | Business Requirement                                       | Can you comply with this requirement? |    |                                                                              |
|--------|------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                            | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 6-R.1  | Funds exception reports by agency, division, account, etc. | √                                     |    |                                                                              |
| 6-R.2  | Funds exception override report.                           | √                                     |    |                                                                              |
| 6-R.3  | Ad hoc                                                     | √                                     |    |                                                                              |

## Funds Checking and Encumbrance Requirements

Current NCAS funds checking and encumbrance posting processes:

|                                                                                                                                                                                                                                                                                                                                                                                                                    |           |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|
| When a <b>requisition</b> is created, available funds are checked and updated real-time with a commitment (pre-encumbrance), but nothing is posted to the general ledger.                                                                                                                                                                                                                                          | Real-time | No          |
| When a requisition is converted to a <b>purchase order</b> , the commitment (pre-encumbrance) in the available funds table is reversed, and an encumbrance based on the purchase order line value is inserted real-time. Funds are checked, and the encumbrance is posted to the general ledger at night in a batch job.                                                                                           | Real-time | Encumbrance |
| When an <b>invoice</b> is entered and matched against a purchase order, the encumbrance on the available funds table is reversed and replaced with another encumbrance in the amount of the invoice line (cash basis accounting). Funds are checked real-time. The invoice encumbrance is posted to the general ledger, and the original purchase order encumbrance is reversed, in the nightly batch posting job. | Real-time | Encumbrance |
| When payment is made, the expense is posted to the general ledger, and the encumbrance is reversed, in the nightly batch posting job.                                                                                                                                                                                                                                                                              | No        | Expense     |

The only other way encumbrance and expense entries occur is through journal entries. Such entries are posted during the nightly batch job and reflected in the available funds table the following morning.

### Implications for eProcurement:

#### 1. When a requisition is created in the eProcurement System:

- **We could skip funds checking:** Assuming a catalog requisition becomes a purchase order before it is sent electronically to the vendor, and assuming workflow creates a fast approval environment, we may be able to skip the pre-encumbrance funds checking functionality. However, if approvals take several days for completion, then the available funds table will not reflect that commitment when funds are checked for purchase order and invoice transactions. Also, non-catalog requisitions are likely to take longer to approve, and therefore may require funds checking.

## Funds Checking and Encumbrance Requirements

- **We could create a requisition NCAS:** We would check for funds real-time, but also would create a parallel requisition in the NCAS. This would commit the funds against the available funds table during nightly batch processing, which means the commitment would be included in the next day's available funds table. If we do this, we will have a requisition document in both systems. In addition, when the requisition or subsequent purchase order is sent electronically to the vendor, the requisition in the NCAS must be converted to a purchase order or closed; or else the commitment in the available funds file will remain indefinitely.
- **We could directly enter a commitment into the available funds table:** If we enter a direct commitment against the table, without reference to a requisition, then the available funds table will reflect that commitment the next day. However, when the requisition is fully or partially fulfilled, we will have to send an adjusting direct entry to the table, or else the available funds total will be wrong.

### 2. When a requisition becomes a purchase order in the eProcurement System:

- **We could create purchase orders only in the eProcurement System:** If we do not create purchase orders in NCAS, we still must check for funds availability, then we must pass a journal entry during nightly batch processing to update encumbrances. If we post encumbrances this way, then we will have to use journal entries to reverse these encumbrances when full or partial matching invoices are entered. Even if invoicing is done entirely in the NCAS, there will be no purchase order to match, so a reversing journal entry still will be required.
- **Create a purchase order in NCAS in batch:** If we use the eProcurement purchase orders to create NCAS purchase orders via nightly batch processing, then funds checking will occur and encumbrance entries will be made automatically. However, the funds checking that occurs during batch processing will cause a day's delay, unless we still check funds real-time via the eProcurement System. This option also would result in purchase orders being created in both systems, and would require the buyer to operate in both systems. In addition, we would have to synch various data elements, including commodities, vendors, buyers, requesters, and units of measure. Also, purchase orders in the NCAS cannot utilize a quantity with a decimal point, as we have requested in our eProcurement System requirements.

### 3. When an invoice is entered and matched to a PO in the eProcurement System:

- **Do all invoicing, including matching, only in the eProcurement System:** When an invoice is entered as a match against a purchase order, the system must check funds, reverse all or part of the PO encumbrance, and post an AP (accounts payable) encumbrance. If purchasing and invoicing are done only in the eProcurement System, these entries to the general ledger will have to be accomplished via journal entries. The audit trail for journal entry encumbrance processing is not nearly as robust as with normal transaction processing, making reporting more difficult. This means all 1099 report, tax reporting by county, etc. must be done from the eProcurement System.
- **Create invoices in the NCAS in batch:** When matching invoices are entered in batch, funds checking occurs, and encumbrance reversals and postings are made automatically. In order to make these payments, of course, all required receiving must be in place in the

## Funds Checking and Encumbrance Requirements

NCAS. Also, since the creation of these invoices occurs during nightly processing, matching exceptions will not be known until the next morning. This option requires both buyers and accounts payable clerks to operate in both systems. This option also requires that data from both systems be synched.

- **Enter invoices only in the NCAS:** If invoices are entered only in the NCAS, and matched against NCAS received purchase orders, all funds checking and encumbrance entries will be made automatically, and all standard reporting works as is. Buyers still will have to use both systems, but accounts payable clerks will be able to operate in the NCAS alone. Since accounting is not being done in the eProcurement System, leaving purchase orders in an unpaid status has no adverse impact.

### 4. When an invoice is paid in the eProcurement System:

- Since payment results in a reversal of the AP encumbrance and posting of expenses, those entries would have to be made via journal entries during nightly batch processing. If we are actually going to make payments via the eProcurement System, then we will have to integrate it with Cash Management (CMCS) and BottomLine Technologies' Paybase 32 system. In addition, we must require that the eProcurement System be capable of ERS (evaluated receipt settlement). Finally, all 1099 and other reporting would have to be done from the new system.

### 5. Use the procurement card with the eProcurement System:

- If agencies use a default "ghost" procurement card, all catalog purchases would be done solely via the eProcurement System. Just as with current procurement card transactions, there would be no funds checking and no encumbrance of funds prior to order fulfillment. Transactions would be downloaded from the bank into the NCAS daily and reconciled by agencies. The system will use these downloaded transactions to create a monthly invoice, at which time funds are finally checked and an AP encumbrance made. From that point on, the transaction is handled like any other direct invoice. The eProcurement System would provide far more purchasing detail than currently provided by the card providers.

**Note:** With the aid of middleware, it may be possible to read and pass data between the eProcurement System and the various legacy systems (such as NCAS) real-time. That would eliminate the delay caused by passing batch files during nightly processing.

## Solicitation Requirements

Solicitation functionality requirements:

| Number | Business Requirement                                                                                                                                                                                                                                                                                                                                                                                   | Can you comply with this requirement? |    |                                                                                                                                                                                                                                                                                   |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                                                                                                                                                                                        | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                                                                                                                                                                                      |
| 7-F.1  | One time data entry (no duplicate entering). Use data from agency, buyer, and commodity, etc. files, in addition to data entered directly in solicitation tables.                                                                                                                                                                                                                                      | √                                     |    | If a comma delimited file outputs from legacy systems are provided conversion processes can be created which will eliminate the need for manual data entry.                                                                                                                       |
| 7-F.2  | System shall be able to convert an electronic requisition as an IFB, RFP, RFQ, a waiver, or other solicitation document that can be posted and processed by the originating agency or forwarded to central purchasing (P&C or ITS) for posting. Forwarding should be accomplished automatically via work rules involving agency identity and value of procurement transaction.                         | √                                     |    | Our current system meets your requirements for RFQ's (those requests which are under the bid limit.). Our Q2 2001 release will include "eBid", which allows online creation and submission of IFBs, and RFPs, that are over the bid limit, and comply with "sealed" requirements. |
| 7-F.3  | Track the status of the requisition and maintain an e-mail communication log (purchaser/ requisitioner) throughout the entire process. Late response notification to be monitored. Ability to cross-reference information on service contracts procured by agencies, especially to reflect accurate status during procurement process, is desirable. (manual update by central purchasing acceptable). | √                                     |    |                                                                                                                                                                                                                                                                                   |
| 7-F.4  | System to automatically assign a solicitation Control Number and route to the correct purchasing group based on commodity type or other criteria. System to accommodate and track multiple review / oversight levels. (Examples: purchasing entity review of specifications, CS-I for consultant services).                                                                                            | √                                     |    |                                                                                                                                                                                                                                                                                   |

## Solicitation Requirements

| Number | Business Requirement                                                                                                                                                                                                                                                                                                                                                             | Can you comply with this requirement? |    |                                                                                                                                                                                                                                                                     |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                                                                                                                                                                  | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                                                                                                                                                                        |
| 7-F.5  | System to provide various templates to create solicitation document, and formatted standard paragraph selections. When applicable, include listing of non-state agencies covered by solicitation (term contracts). Scanned documents in various formats as well as standard formatted computer files (e.g., JPEG, GIF, Excel, etc.) must be able to be incorporated or inserted. | √                                     |    | We currently do not provide this in our eQuote module, but the specifications for our eBid module (Q2, 2001 release) currently include this requirement                                                                                                             |
| 7-F.6  | System should be able to calculate critical dates. For example, when vendors are given 90 days to respond to a solicitation, the system should calculate the response due date, with consideration given to weekends and holidays.                                                                                                                                               | √                                     |    | Our eQuote system accommodates this, and our eBid system will accommodate this when released in Q2 2001                                                                                                                                                             |
| 7-F.7  | Post solicitations on the internet, listing any unique requirements (Mandatory site visit, for example). Notify (e-mail) potential bidders based on vendors registered for specified commodities. Vendors must be able to download or interactively complete the solicitation online.                                                                                            | √                                     |    | Our eQuote system has e-mail vendor notification and on-line interactive completion of submission. Our eBid (Q2 2001) system will also incorporate this functionality as well as openly post to allow access to all vendors who wish to download a copy of the bid. |
| 7-F.8  | System to provide a public inquiry site where posted solicitations may be displayed based on various search criteria (by buyer, by commodity, by agency, by solicitation control number, etc.) with various outputs.                                                                                                                                                             | √                                     |    | This will be delivered in our "eBid" functionality released in Q2 2001                                                                                                                                                                                              |
| 7-F.9  | Prepare and post addenda at any time during process. These could be changes to online data fields or attached files.                                                                                                                                                                                                                                                             | √                                     |    | See 7-F.8                                                                                                                                                                                                                                                           |

## Solicitation Requirements

| Number | Business Requirement                                                                                                                                                                                                                                                                                          | Can you comply with this requirement? |    |                                                                              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                                                                                               | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 7-F.10 | Receive solicitation document electronically (collect in a secure "lock box" file set to close at a specific date and time) (non-mandatory).                                                                                                                                                                  | √                                     |    | See 7-F.8                                                                    |
| 7-F.11 | System shall be able to validate an electronic signature.                                                                                                                                                                                                                                                     | √                                     |    | See 7-F.8                                                                    |
| 7-F.12 | Initially, provision must be made to enable Small Business and HUB Vendors to submit bids in hardcopy format. Provision must be made for tracking bulky hardcopy documentation, manuals, product literature, etc., required with the offer. System shall allow scanned documents to be stored as attachments. | √                                     |    | See 7-F.6                                                                    |
| 7-F.13 | If response is an IFB, RFQ, or one step RFP automatically tabulate the items (capability of various sort criteria, e.g., pricing, performance, item, name). Award selection shall be at the item level, sub-item level and to multiple Vendors. Send hardcopy and recommendation to the requisitioner         | √                                     |    | See 7-F.6                                                                    |
| 7-F.14 | If response is a two-step RFP, route to requisitioner/purchaser for technical evaluation / review /selection, then process the pricing performing the same functions as the IFB.                                                                                                                              | √                                     |    | See 7-F.6                                                                    |
| 7-F.15 | If response is a quotation due to a Waiver, create Board Sheet (or alternate approval form).                                                                                                                                                                                                                  | √                                     |    | extrinsic                                                                    |
| 7-F.16 | When recommendation for award is received from the agency purchasing entity and approved by P&C or ITS on-line, the Board Sheet or alternate approval form (template) is automatically created                                                                                                                | √                                     |    | extrinsic                                                                    |
| 7-F.17 | When the appropriate authority (ies) approves award, automatically create Award Certification and transmit to                                                                                                                                                                                                 | √                                     |    | See 7-F.6                                                                    |

## Solicitation Requirements

| Number | Business Requirement                                                                                                                                                                                                                                                                                                    | Can you comply with this requirement? |    |                                                                              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                                                                                                         | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
|        | Vendor(s) and purchasing entity electronically for processing via purchase order or similar means.                                                                                                                                                                                                                      |                                       |    |                                                                              |
| 7-F.18 | After award is completed, system shall have capability to cancel award, update, and/or re-award to different vendor (default of contract) provisions must be made to supplement any information after initial award and to track all changes.                                                                           | √                                     |    | See 7-F.6                                                                    |
| 7-F.19 | Ability to track and notify agency regarding contract ending dates, renewal options, etc. (Advance notice to buyer and agency)                                                                                                                                                                                          | √                                     |    | See 7-F.6                                                                    |
| 7-F.20 | Automatic tracking/notification of the buyer and the agency of required inspection                                                                                                                                                                                                                                      | √                                     |    | extrinsic                                                                    |
| 7-F.21 | Ability to request inspection—purchaser or other source                                                                                                                                                                                                                                                                 | √                                     |    | extrinsic                                                                    |
| 7-F.22 | Must allow recording of less formal vendor quotations (faxed, e-mailed or taken by the buyer/requester over the phone), tying competitive quotations together with an automatically assigned solicitation number.                                                                                                       | √                                     |    | extrinsic                                                                    |
| 7-F.23 | Informal vendor quotations must be integrated with the purchasing function, so that the solicitation number can be referenced on one or more purchase orders, and quotation data (price, freight, quantity discounts, etc.) should be defaulted onto the purchase order when that number for that vendor is referenced. | √                                     |    |                                                                              |
| 7-F.24 | Informal vendor quotations must be identifiable either as one-time quotations, or as prices that are valid for a specified time period. The system should not allow invalid/expired quotations                                                                                                                          | √                                     |    |                                                                              |



## Solicitation Requirements

| Number | Business Requirement                                                                                                                                                                          | Can you comply with this requirement? |    |                                                                              |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                                                                                                               | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
|        | to be referenced on purchase orders.                                                                                                                                                          |                                       |    |                                                                              |
| 7-F.25 | In addition to collecting documentation of informal vendor quotation data, the system must provide an on-line method of comparative quote analysis by informal quotation solicitation number. | √                                     |    |                                                                              |

## Solicitation Requirements

### Glossary of Terms:

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| <b>RFP</b>         | Request for proposal                                |
| <b>RFQ</b>         | Request for quotation                               |
| <b>IFB</b>         | Invitation for bid                                  |
| <b>Waiver</b>      | No competition/posting required (sole source quote) |
| <b>Control No.</b> | A number identifying a specific solicitation        |
| <b>Board Sheet</b> | Recommendation form to Board of Award               |
| <b>RFI</b>         | Request for Information                             |

Solicitation data requirements:

The data listing for solicitations in the IPS system is very complex and is currently being housed in 30 plus tables in a relational database. These tables are available for review if needed. In addition, there may be partial duplication of field data requirements in the previous sections of this document.

| Number | Business Requirement                                                           | Can you comply with this requirement? |    |                                                                              |
|--------|--------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 7-D.1  | Solicitation document and addenda(um) text file(s).                            | √                                     |    |                                                                              |
| 7-D.2  | Solicitation posting data                                                      | √                                     |    |                                                                              |
| 7-D.3  | E-mail (purchaser / requisitioner) communication file(s) (communication log)   | √                                     |    |                                                                              |
| 7-D.4  | NSA (non-state agency) Lists                                                   | √                                     |    | extrinsic                                                                    |
| 7-D.5  | Vendor information data (from vendor table)                                    | √                                     |    |                                                                              |
| 7-D.6  | Commodity class data (equivalent to NIGP 5-digit level) (from commodity table) | √                                     |    |                                                                              |

## Solicitation Requirements

| Number | Business Requirement                                                                                                                | Can you comply with this requirement? |    |                                                                              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                                                     | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 7-D.7  | Requisitioning Entity data (from agency, buyer and requisitioner tables)                                                            | √                                     |    |                                                                              |
| 7-D.8  | Requisitioner, Purchaser data at purchasing entity and P&C and ITS (buyer table)                                                    | √                                     |    |                                                                              |
| 7-D.9  | Requisition data (audit log for tracking )                                                                                          | √                                     |    |                                                                              |
| 7-D.10 | Solicitation data (vendor responses) for the various types of solicitation (IFB, RFQ, RFP, Waiver, or other solicitation documents) | √                                     |    |                                                                              |
| 7-D.11 | Bid history data (opening date, bid No, award date, holidays, etc)                                                                  | √                                     |    |                                                                              |
| 7-D.12 | Solicitation data: items, price, delivery, shipping info, electronic signature validation data, etc.                                | √                                     |    |                                                                              |
| 7-D.13 | Bid tab data (specific item or sub-item data automatically calculated at this time)                                                 | √                                     |    |                                                                              |
| 7-D.14 | Award data (specific item or sub-item and multiple awards data)                                                                     | √                                     |    |                                                                              |
| 7-D.15 | Contract start dates, contract end dates, renewal options and dates                                                                 | √                                     |    |                                                                              |
| 7-D.16 | Advance notification time period (for exercising options or for expiration dates)                                                   | √                                     |    |                                                                              |
| 7-D.17 | Ability to flag inspection on item file.                                                                                            | √                                     |    | extrinsic                                                                    |

## Solicitation Requirements

| Number | Business Requirement                                                                             | Can you comply with this requirement? |    |                                                                              |
|--------|--------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                  | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 7-D.18 | Informal solicitation: Solicitation number                                                       | √                                     |    |                                                                              |
| 7-D.19 | Informal solicitation: Informal bid type (phone, fax, web, etc.)                                 | √                                     |    | extrinsic                                                                    |
| 7-D.20 | Informal solicitation: Name of quotation provider and contact data (phone / fax / e-mail)        | √                                     |    |                                                                              |
| 7-D.21 | Informal solicitation: Date solicitation received                                                | √                                     |    |                                                                              |
| 7-D.22 | Informal solicitation: Quote status (accepted, rejected, incomplete, requested & declined, etc.) | √                                     |    |                                                                              |
| 7-D.23 | Informal solicitation: Vendor ID                                                                 | √                                     |    |                                                                              |
| 7-D.24 | Informal solicitation: Item description                                                          | √                                     |    |                                                                              |
| 7-D.25 | Informal solicitation: Commodity code                                                            | √                                     |    |                                                                              |
| 7-D.26 | Informal solicitation: Vendor's item number                                                      | √                                     |    |                                                                              |
| 7-D.27 | Informal solicitation: Item quotation effective date and expiration date, if applicable          | √                                     |    |                                                                              |
| 7-D.28 | Informal solicitation: Price                                                                     | √                                     |    |                                                                              |
| 7-D.29 | Informal solicitation: Payment terms / discounts                                                 | √                                     |    |                                                                              |
| 7-D.30 | Informal solicitation: F.O.B. and freight information                                            | √                                     |    |                                                                              |

## Solicitation Requirements

| Number | Business Requirement                                               | Can you comply with this requirement? |    |                                                                              |
|--------|--------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                    | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 7-D.31 | Informal solicitation: Quantity discounts (dollars and/or percent) | √                                     |    |                                                                              |
| 7-D.32 | Informal solicitation: Notes                                       | √                                     |    |                                                                              |

Solicitation reporting requirements:

| Number | Business Requirement                                                                                                   | Can you comply with this requirement? |    |                                                                                                                                                                                                       |
|--------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                        | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                                                                                                          |
| 7-R.1  | Tracking status reports: Requisitioning Entity, Time line, Quantity, Solicitation Type, Performance evaluation, etc    | √                                     |    | An extensive “external” web based reporting architecture for solicitation data will is being released end of Q1 2001, in the interim a report can be run by Customer Service to meet this requirement |
| 7-R.2  | Solicitation Type, Requisitioning Entity, Requisitioner, Purchaser, Engineer (where applicable), process by P&C or ITS | √                                     |    | Refer to 7-R.1                                                                                                                                                                                        |
| 7-R.3  | Email correspondence (text file) between central and purchasing entity (either a log or actual correspondence detail)  | √                                     |    | Refer to 7-R.1                                                                                                                                                                                        |
| 7-R.4  | Offerer, completed solicitation document.                                                                              | √                                     |    | Refer to 7-R.1                                                                                                                                                                                        |
| 7-R.5  | Tabulation                                                                                                             | √                                     |    | Refer to 7-R.1                                                                                                                                                                                        |
| 7-R.6  | Award data, by Commodity, Vendor, State, County, HUB, Small                                                            | √                                     |    | Refer to 7-R.1                                                                                                                                                                                        |

## Solicitation Requirements

| Number | Business Requirement                                                                                                                                        | Can you comply with this requirement? |    |                                                                              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                                                                             | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
|        | Business, etc                                                                                                                                               |                                       |    |                                                                              |
| 7-R.7  | Board Sheets / alternate service approval forms                                                                                                             | √                                     |    | Refer to 7-R.1                                                               |
| 7-R.8  | Award Certification (various formats)                                                                                                                       | √                                     |    | Refer to 7-R.1                                                               |
| 7-R.9  | Purchasing Entities e-mail, names addresses, contacts, etc. for single entry and electronic communications by individuals, by purchasing groups, statewide. | √                                     |    | Refer to 7-R.1                                                               |
| 7-R.10 | Requisitions received by person, by Agency, by commodity, by IT versus P&C, etc.                                                                            | √                                     |    | Refer to 7-R.1                                                               |
| 7-R.11 | Cost Avoidance (actual versus estimate)                                                                                                                     | √                                     |    | extrinsic                                                                    |
| 7-R.12 | Ad hoc                                                                                                                                                      | √                                     |    | Refer to 7-R.1                                                               |

## Receiving Requirements

Purchasing functionality requirements:

| Number | Business Requirement                                                                                                                                             | Can you comply with this requirement? |    |                                                                                                                                                                                                                                |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                                                  | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                                                                                                                                   |
| 8-F.1  | Purchase order must accept default data from the entity (agency) table: Agency name, address (for accounts payable), etc.                                        | √                                     |    |                                                                                                                                                                                                                                |
| 8-F.2  | Purchase order must accept default data from the buyer table: Buyer name, phone number, etc.                                                                     | √                                     |    |                                                                                                                                                                                                                                |
| 8-F.3  | Purchase order must accept default data from the vendor table: Vendor name, address, etc.                                                                        | √                                     |    |                                                                                                                                                                                                                                |
| 8-F.4  | Purchase order must accept default data from item table: Item description and price, vendor's item number, etc.                                                  | √                                     |    |                                                                                                                                                                                                                                |
| 8-F.5  | Must be able to convert requisitions to purchase orders without re-keying, but must be able to change defaulted values.                                          | √                                     |    |                                                                                                                                                                                                                                |
| 8-F.6  | Must be able to integrate recorded vendor solicitation responses into purchase order: Price, terms, promised delivery date, discounts (payment & quantity), etc. | √                                     |    |                                                                                                                                                                                                                                |
| 8-F.7  | Purchase order number must be assigned automatically from a user-defined range.                                                                                  | √                                     |    |                                                                                                                                                                                                                                |
| 8-F.8  | Must be able to combine lines from multiple requisitions into a single purchase order to get economic advantages that may be available.                          | √                                     |    | As delivered, Ariba 7.0 creates a single PO for each supplier on a fully approved requisition. Ariba does not currently have plans to provide an order aggregation process, although at least one Ariba customer has created a |

## Receiving Requirements

| Number | Business Requirement                                                                                                                                                                                           | Can you comply with this requirement? |    |                                                                                                                                                                                                     |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                                                                                                        |
|        |                                                                                                                                                                                                                |                                       |    | custom process to do so, and can be developed specifically for NC during the implementation phase                                                                                                   |
| 8-F.9  | Must be able to split a single requisition line into multiple purchase orders (split the order between two or more vendors).                                                                                   | √                                     |    |                                                                                                                                                                                                     |
| 8-F.10 | Must be able to check funds before releasing the purchase order, either by checking against the legacy system's available funds file, or by creating the same purchase order in the legacy system.             | √                                     |    | Please note comment on 6-F.1                                                                                                                                                                        |
| 8-F.11 | Must encumber funds when purchase orders are created, either via a journal entry (to be reversed later) into the legacy system, or by creating the same purchase order in the legacy system (see 8-F10 above). | √                                     |    | Please note comment on 6-F.1                                                                                                                                                                        |
| 8-F.12 | Must be able to transmit purchase orders (catalog and non-catalog) electronically (web / e-mail / fax).                                                                                                        | √                                     |    |                                                                                                                                                                                                     |
| 8-F.13 | Purchase orders must be fully integrated with receiving and accounts payable, so that the status of each line is adjusted with each receipt and payment.                                                       | √                                     |    | For payment status Ariba will incorporate AP functionality into Ariba 8.0 (early Q4 2001). Should this requirement need to be fulfilled earlier, this work can be configured during implementation. |
| 8-F.14 | Must retain an audit trail of every purchase order update (add / change / delete / close / cancel), and must be able to pass each change as an update to the same purchase order in the legacy system.         | √                                     |    |                                                                                                                                                                                                     |



## Receiving Requirements

| Number | Business Requirement                                                                                                            | Can you comply with this requirement? |    |                                                                                                                        |
|--------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                 | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                           |
| 8-F.15 | Must notify buyer whenever a contract or blanket order nears expiration (by date, by dollars released or by quantity released). | √                                     |    | Custom reporting could be developed during implementation to alert users to a dollar amount thresholds are approaching |

## Receiving Requirements

| Number | Business Requirement                                                                                                                                                                                                    | Can you comply with this requirement? |    |                                                                                                                                                                                  |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                         | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                                                                                     |
| 8-F.16 | Must be able to prescribe a retainage amount or percent and pass that requirement to accounts payable to be applied at time of payment.                                                                                 | √                                     |    | Ariba will incorporate AP functionality into Ariba 8.0 (early Q4 2001). Should this requirement need to be fulfilled earlier, this work can be configured during implementation. |
| 8-F.17 | Must be able to flag a purchasing transaction for evaluated receipt settlement (ERS) to be applied as payment upon receipt. This flag may default from the vendor table, but must be available for change by the buyer. | √                                     |    | Ariba will incorporate AP functionality into Ariba 8.0 (early Q4 2001). Should this requirement need to be fulfilled earlier, this work can be configured during implementation. |
| 8-F.18 | Must allow buyer to indicate tolerances for receiving and payments, so that very minor discrepancies in quantities received and unit price do not produce exceptions during those functions.                            | √                                     |    |                                                                                                                                                                                  |
| 8-F.19 | Must be able to calculate tax amount based on percent entered by the buyer.                                                                                                                                             | √                                     |    | Configurable through a standard API.                                                                                                                                             |
| 8-F.20 | System should be able to prorate taxes, freight and any other additional cost associated with a purchasing transaction to designated lines of a purchase order, for purposes of encumbrance accounting and matching.    | √                                     |    |                                                                                                                                                                                  |
| 8-F.21 | Must be able to suspend processing temporarily, until buyer releases purchase order for distribution.                                                                                                                   | √                                     |    |                                                                                                                                                                                  |
| 8-F.22 | System must be able to notify buyer whenever a purchase order is past due with no receipt.                                                                                                                              | √                                     |    |                                                                                                                                                                                  |

## Receiving Requirements

| Number | Business Requirement                                                                                                                                                                                                                                      | Can you comply with this requirement? |    |                                                                                                                |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|----------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                                           | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                   |
| 8-F.23 | In addition to item description, the buyer must be able to attach pictures, drawings and complete specifications to the purchase order line (including in the lowest technology available), which in turn can be passed to accounts payable for matching. | √                                     |    |                                                                                                                |
| 8-F.24 | System must be capable of processing each line of a purchase order independently. Therefore, each line must have its own ship-to address, accounting distribution, promise date, warehouse indicator, tax amount, freight amount, project code, etc.      | √                                     |    | As noted earlier, the freight component will be added during implementation.                                   |
| 8-F.25 | System must allow a single purchase order line to be split to multiple accounting distributions and project codes.                                                                                                                                        | √                                     |    |                                                                                                                |
| 8-F.26 | A buyer must be able to purchase goods with a different unit of measure than the one on the requisition line, and the system should be able to convert the quantities.                                                                                    | √                                     |    | The buyer may alter the unit of measure however, as delivered, the solution will not convert it automatically. |
| 8-F.27 | Must have online view of status, such as quantities received and invoiced to date, closed and cancelled lines, etc.                                                                                                                                       | √                                     |    |                                                                                                                |
| 8-F.28 | Must be able to see a history of line changes, cancellations, dates, etc.                                                                                                                                                                                 | √                                     |    |                                                                                                                |
| 8-F.29 | Must have system to retain PO history for period of time sufficient to satisfy state retention requirements.                                                                                                                                              | √                                     |    |                                                                                                                |

## Receiving Requirements

Purchasing data requirements:

| Number | Business Requirement                                                                                                                      | Can you comply with this requirement? |    |                                                                              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                                                           | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 8-D.1  | Buyer identification                                                                                                                      | √                                     |    |                                                                              |
| 8-D.2  | Entity (agency/division) information                                                                                                      | √                                     |    |                                                                              |
| 8-D.3  | Unique purchase order number (and change notice/reprint number, if applicable)                                                            | √                                     |    |                                                                              |
| 8-D.4  | Unique blanket release number and date                                                                                                    | √                                     |    | Please refer to comment in 4-F.11                                            |
| 8-D.5  | Unique purchase order line number                                                                                                         | √                                     |    |                                                                              |
| 8-D.6  | Item identification number                                                                                                                | √                                     |    |                                                                              |
| 8-D.7  | Item description                                                                                                                          | √                                     |    |                                                                              |
| 8-D.8  | Commodity codes                                                                                                                           | √                                     |    |                                                                              |
| 8-D.9  | Vendor's manufacturer's item identification number                                                                                        | √                                     |    |                                                                              |
| 8-D.10 | Attachment (drawing, picture, etc.) file name                                                                                             | √                                     |    |                                                                              |
| 8-D.11 | Quantity (allowing at least two decimal places) <b>(This will cause interface problems with NCAS quantities, which allow no decimals)</b> | √                                     |    |                                                                              |

## Receiving Requirements

| Number | Business Requirement                                                         | Can you comply with this requirement? |    |                                                                              |
|--------|------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                              | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 8-D.12 | Units of measure (UOM) – allow for alternate units of measure or conversion  | √                                     |    |                                                                              |
| 8-D.13 | Price per UOM                                                                | √                                     |    |                                                                              |
| 8-D.14 | Tax, freight & any other additional cost (total and per line), if applicable | √                                     |    | As noted earlier, the freight component will be added during implementation. |
| 8-D.15 | Accounting distribution                                                      | √                                     |    |                                                                              |
| 8-D.16 | Project indicator                                                            | √                                     |    |                                                                              |
| 8-D.17 | Work order/job order number                                                  | √                                     |    |                                                                              |
| 8-D.18 | Ship-to address                                                              | √                                     |    |                                                                              |
| 8-D.19 | Ship-via instructions                                                        | √                                     |    | Extrinsic                                                                    |
| 8-D.20 | Shipping & freight terms (F.O.B.)                                            | √                                     |    | Extrinsic                                                                    |
| 8-D.21 | Warehouse identifier (for legacy system warehouse transactions)              | √                                     |    | Extrinsic                                                                    |
| 8-D.22 | HUB information (term contract, sole source, etc.)                           | √                                     |    |                                                                              |
| 8-D.23 | Future posting indicator (for items to be purchased with next year's funds)  | √                                     |    | Extrinsic                                                                    |

## Receiving Requirements

| Number | Business Requirement                                                         | Can you comply with this requirement? |    |                                                                              |
|--------|------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                              | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 8-D.24 | Standard instructions (boiler plate)                                         | √                                     |    | Extrinsic                                                                    |
| 8-D.25 | Vendor quotation indicator                                                   | √                                     |    | Extrinsic                                                                    |
| 8-D.26 | Date entered                                                                 | √                                     |    |                                                                              |
| 8-D.27 | Date released/printed                                                        | √                                     |    |                                                                              |
| 8-D.28 | Due date (vendor's promised delivery date)                                   | √                                     |    |                                                                              |
| 8-D.29 | Expedite / follow-up date (used for buyer notification)                      | √                                     |    |                                                                              |
| 8-D.30 | Blanket order expiration factors (date, quantity released, dollars released) | √                                     |    | Please refer to comment in 4-F.11                                            |
| 8-D.31 | Retainage percent                                                            | √                                     |    | Extrinsic                                                                    |
| 8-D.32 | Last updated date for header and lines                                       | √                                     |    |                                                                              |
| 8-D.33 | Originating requisition number(s)                                            | √                                     |    |                                                                              |
| 8-D.34 | Receiving tolerances                                                         | √                                     |    |                                                                              |
| 8-D.35 | Invoicing tolerances                                                         | √                                     |    |                                                                              |
| 8-D.36 | Recycled goods indicator (may default from item table)                       | √                                     |    | Extrinsic                                                                    |

## Receiving Requirements

| Number | Business Requirement                                                                                           | Can you comply with this requirement? |    |                                                                              |
|--------|----------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                                | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 8-D.37 | Status (purchase order, receipt, invoicing, etc.)                                                              | √                                     |    |                                                                              |
| 8-D.38 | Calculated values for inquiry: Total purchase order value, extended line value, total number of PO lines, etc. | √                                     |    |                                                                              |

## Receiving Requirements

Purchasing reporting requirements:

| Number | Business Requirement                                                   | Can you comply with this requirement? |    |                                                                                       |
|--------|------------------------------------------------------------------------|---------------------------------------|----|---------------------------------------------------------------------------------------|
|        |                                                                        | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.          |
| 8-R.1  | Buyer notification report (past due actions, expedite reminders, etc.) | √                                     |    |                                                                                       |
| 8-R.2  | HUB reporting                                                          | √                                     |    |                                                                                       |
| 8-R.3  | Recycled goods reporting                                               | √                                     |    | New reports can be created to support this specific requirement during implementation |
| 8-R.4  | Purchase order totals for goods and services                           | √                                     |    | New reports can be created to support this specific requirement during implementation |
| 8-R.5  | Ad hoc reporting                                                       | √                                     |    |                                                                                       |



## Receiving Requirements

Receiving functionality requirements:

| Number | Business Requirement                                                                                                                                                                                                                                         | Can you comply with this requirement? |    |                                                                                                                                                                  |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                                              | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                                                                     |
| 9-F.1  | Must be able to tie receipts to specific purchase order lines, and allow PO line information to default to receiving function.                                                                                                                               | √                                     |    |                                                                                                                                                                  |
| 9-F.2  | Must be able to record a receipt where shipping papers do not indicate the purchase order number for the shipment.                                                                                                                                           | √                                     |    |                                                                                                                                                                  |
| 9-F.3  | Must be able to provide receiving information to accounts payable for matching and payment authorization purposes.                                                                                                                                           | √                                     |    |                                                                                                                                                                  |
| 9-F.4  | Must be able to pass receiving information to legacy system inventory module to update on-hand and average cost values, and to the general ledger for asset balances.                                                                                        | √                                     |    |                                                                                                                                                                  |
| 9-F.5  | Must be able to enter partial receipts and update legacy system with each partial receipt.                                                                                                                                                                   | √                                     |    |                                                                                                                                                                  |
| 9-F.6  | Must be able to change receipt information, record return of goods, or delete receipts, with a full audit trail of all transactions, and must pass each such transaction to the purchase order and to accounts payable (and legacy system inventory module). | √                                     |    |                                                                                                                                                                  |
| 9-F.7  | Must verify (audit) quantity received against PO line and notify receiver if quantity, due date or receipt location do not match within allowable tolerances.                                                                                                | √                                     |    |                                                                                                                                                                  |
| 9-F.8  | Must allow receiving in more than one unit of measure, in case a broken pack is partially returned or rejected.                                                                                                                                              |                                       | √  | The solution does provide the user with an extra screen when a rejection is made to input detailed information about the situation. The solution can be required |

## Receiving Requirements

| Number | Business Requirement                                                                                                                                                                                                                                     | Can you comply with this requirement? |    |                                                                                                                                                                                                                                                                                                                              |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                                                                                                                                          | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                                                                                                                                                                                                                                 |
|        |                                                                                                                                                                                                                                                          |                                       |    | to specifically display the unit of measure if the State requires.                                                                                                                                                                                                                                                           |
| 9-F.9  | Receiving/shipping clerk must be able to place audit exception receipts on hold, pending clarification by the buyer. Held receipts should not update accounts payable.                                                                                   | √                                     |    |                                                                                                                                                                                                                                                                                                                              |
| 9-F.10 | Must be able to reference multiple purchase orders with receipts on one packing slip.                                                                                                                                                                    | √                                     |    |                                                                                                                                                                                                                                                                                                                              |
| 9-F.11 | Must audit for duplicate receipts (by location, packing slip number, and PO line number).                                                                                                                                                                | √                                     |    |                                                                                                                                                                                                                                                                                                                              |
| 9-F.12 | Must track location and receiver's identity.                                                                                                                                                                                                             | √                                     |    |                                                                                                                                                                                                                                                                                                                              |
| 9-F.13 | Must allow receipt inquiry by location, by receiver, by date, by item, etc.                                                                                                                                                                              | √                                     |    | Ariba 7.0 allows receivers to search by the following criteria: requisition number, on behalf of, ordered date, order id, order title, receipt date, receipt id, receipt status, status, and supplier name., location is currently not tracked however during implementation the solution can be configured to support this. |
| 9-F.14 | Must allow designated items to be routed for inspection before receiving is considered complete.                                                                                                                                                         | √                                     |    |                                                                                                                                                                                                                                                                                                                              |
| 9-F.15 | Inspection process must allow items to be both accepted and rejected. System must be able to record station (inspection location) at which rejections occurred, dates of inspection, inspector identification, reasons for rejection, and disposition of | √                                     |    |                                                                                                                                                                                                                                                                                                                              |

## Receiving Requirements

| Number | Business Requirement                                                                                    | Can you comply with this requirement? |    |                                                                              |
|--------|---------------------------------------------------------------------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                                                                                         | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
|        | rejected materials (returned to vendor, scrapped, etc.).                                                |                                       |    |                                                                              |
| 9-F.16 | Partial inspections must be allowed and accumulated until all required inspections have been performed. | √                                     |    |                                                                              |
| 9-F.17 | Receiving and inspection history must be available on-line.                                             | √                                     |    |                                                                              |

Receiving data requirements:

| Number | Business Requirement                         | Can you comply with this requirement? |    |                                                                              |
|--------|----------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                              | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 9-D.1  | Entity (agency/division) information         | √                                     |    |                                                                              |
| 9-D.2  | Receipt location (ship-to on purchase order) | √                                     |    |                                                                              |
| 9-D.3  | Receiver identification                      | √                                     |    |                                                                              |
| 9-D.4  | Transit information                          | √                                     |    |                                                                              |
| 9-D.5  | Packing slip number                          | √                                     |    |                                                                              |
| 9-D.6  | Receipt date                                 | √                                     |    |                                                                              |

## Receiving Requirements

| Number | Business Requirement                                               | Can you comply with this requirement? |    |                                                                                                                     |
|--------|--------------------------------------------------------------------|---------------------------------------|----|---------------------------------------------------------------------------------------------------------------------|
|        |                                                                    | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.                                        |
| 9-D.7  | Item identification                                                | √                                     |    |                                                                                                                     |
| 9-D.8  | Vendor's item identification (from shipping papers)                | √                                     |    |                                                                                                                     |
| 9-D.9  | Quantity received                                                  | √                                     |    |                                                                                                                     |
| 9-D.10 | Unit of measure                                                    | √                                     |    | As delivered, the solution assumes that the receiving unit of measure is equivalent to the ordering unit of measure |
| 9-D.11 | Delivery due date (vendor's promised delivery date – from PO line) | √                                     |    |                                                                                                                     |
| 9-D.12 | Vendor identification                                              | √                                     |    |                                                                                                                     |
| 9-D.13 | Order contact (identification of requisitioner)                    | √                                     |    |                                                                                                                     |
| 9-D.14 | Deliver to name (if different from requisitioner)                  | √                                     |    |                                                                                                                     |
| 9-D.15 | Quantity returned                                                  | √                                     |    |                                                                                                                     |
| 9-D.16 | Date returned                                                      | √                                     |    |                                                                                                                     |
| 9-D.17 | Reason for return                                                  | √                                     |    |                                                                                                                     |
| 9-D.18 | Status (partial, complete, awaiting inspection, on hold, etc.)     | √                                     |    |                                                                                                                     |

## Receiving Requirements

| Number | Business Requirement                         | Can you comply with this requirement? |    |                                                                              |
|--------|----------------------------------------------|---------------------------------------|----|------------------------------------------------------------------------------|
|        |                                              | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future. |
| 9-D.19 | Reason for hold status                       | √                                     |    |                                                                              |
| 9-D.20 | Evaluated receipt settlement (ERS) indicator | √                                     |    | Extrinsic                                                                    |
| 9-D.21 | Inspection location(s)                       | √                                     |    | Extrinsic                                                                    |
| 9-D.22 | Inspector(s) identification                  | √                                     |    |                                                                              |
| 9-D.23 | Inspection(s) date and time                  | √                                     |    |                                                                              |
| 9-D.24 | Item/receipt inspected                       | √                                     |    |                                                                              |
| 9-D.25 | Quantity inspected                           | √                                     |    |                                                                              |
| 9-D.26 | Quantity passed                              | √                                     |    |                                                                              |
| 9-D.27 | Quantity failed                              | √                                     |    |                                                                              |
| 9-D.28 | Reason for failure                           | √                                     |    |                                                                              |
| 9-D.29 | Disposition of failed items                  | √                                     |    |                                                                              |
| 9-D.30 | Lot number                                   | √                                     |    | Extrinsic                                                                    |
| 9-D.31 | Expiration date                              | √                                     |    | Extrinsic                                                                    |

## Receiving Requirements

Receiving reporting requirements:

| Number | Business Requirement                        | Can you comply with this requirement? |    |                                                                                       |
|--------|---------------------------------------------|---------------------------------------|----|---------------------------------------------------------------------------------------|
|        |                                             | YES                                   | NO | If no, please explain. Give date if you anticipate compliance in the future.          |
| 9-R.1  | Held receipts                               | √                                     |    |                                                                                       |
| 9-R.2  | Past due receipts                           | √                                     |    |                                                                                       |
| 9-R.3  | Inspection status                           | √                                     |    |                                                                                       |
| 9-R.4  | Receipt exceptions                          | √                                     |    |                                                                                       |
| 9-R.5  | Evaluated receipt settlement (ERS) receipts | √                                     |    | New reports can be created to support this specific requirement during implementation |
| 9-R.6  | Ad hoc reporting                            | √                                     |    |                                                                                       |